# Appendix 19-1: Onshore Biodiversity Supporting Information





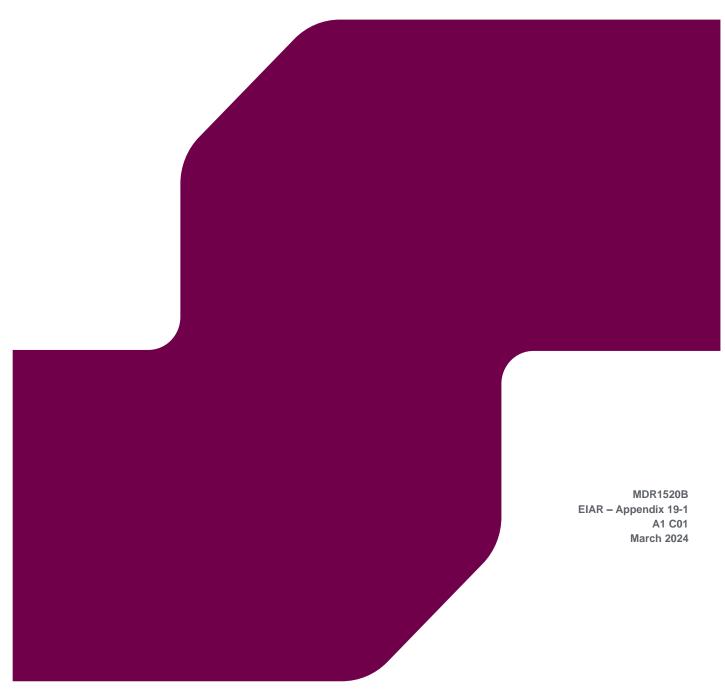






# **ORIEL WIND FARM PROJECT**

**Environmental Impact Assessment Report Appendix 19-1: Onshore Biodiversity – Supporting Information** 



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# **Glossary**

Term	Meaning
DAFOR scale	The DAFOR scale records each species' abundance as Dominant, Abundant, Frequent, Occasional, or Rare based on a semi-quantitative description of each category.
Environmental Quality Ratio (EQR)	Represents the relationship between the values of the biological parameters observed for a body of surface water and the values for these parameters in the reference conditions applicable to that body.
Small Streams Risk Score (SSRS)	A biological risk assessment system for identifying rivers that are definitely 'at risk' of failing to achieve the 'good' water quality status goals of the Water Framework Directive (WFD).
Q-value	Standard monitoring methodology for rivers and streams in Ireland

# **Acronyms**

Term	Meaning
BCT	Bat Conservation Trust
BSBI	Botanical Society of Britain and Ireland
вто	British Trust for Ornithology
EPA	Environmental Protection Agency
EQR	Environmental Quality Ratio
HDD	Horizontal Directional Drilling
IAAS	Invasive Alien Animal Species
IAPS	Invasive Alien Plant Species
IEF	Important Ecological Feature
IFI	Inland Fisheries Ireland
ITM	Irish Transverse Mercator
LP	Listening Point
HWM	High Water Mark
NBDC	National Biodiversity Data Centre
NBW	Night-time Bat Walkover
NPWS	National Parks and Wildlife Services
NRA	National Roads Association
pNHA	Proposed Natural Heritage Area
SCI	Special Conservation Interest
SNH	Scottish Natural Heritage (now NatureScot)
SSRS	Small Streams Risk Score
WFD	Water Framework Directive
WRBD	Western River Basin District
Zol	Zone of Influence

# **Units**

Unit	Description			
cm	Centimetre			
ha	Hectare			
kmph	Kilometres per hour			
m	Meter			
mm	Millimetre			
ms	Millisecond			
mg/l	Milligrams per Litre			
°C	Degrees Celsius			

# 1 ONSHORE BIODIVERSITY – SUPPORTING INFORMATION

This report provides details on the methodologies (see section 1.1) used to collect data to inform the assessment on biodiversity included in chapter 19: Onshore Biodiversity. It also provides information on the baseline environment (see section 1.2), including protected and rare species returned from the National Biodiversity Data Centre (NBDC) desk study search within 5 km of the Project (see section 1.2.1) and information collected through site-specific field surveys (see section 1.2.2). The Geographic Frames of Reference outlined by the National Roads Association (NRA) (2009) are provided in section 1.3, which chapter 19: Onshore Biodiversity has regard for when defining Important Ecological Features (IEFs).

# 1.1 Field study

# 1.1.1 Habitats and flora

### **Terrestrial**

Surveys were carried out on 14 February 2019, 18 July 2019, 2 October 2019, 29 September 2020, 20 and 21 July 2022, 17 November 2022 and 26 April 2023 to classify habitats using the Heritage Council's habitat classification system (Fossitt, 2000) for onshore habitats (terrestrial and freshwater) occurring above the High Water Mark (HWM). The mapping of habitats followed the Heritage Council's mapping methodology (Smith *et al.*, 2011). The information gained from the survey was used to describe habitat features, and to direct further habitat and species-specific survey work to inform this assessment. 'Target Notes' were recorded as necessary on maps in the field to identify the location of additional important ecological features.

Habitat surveys recorded species using an ordinal abundance scale, the DAFOR scale<sup>1</sup>, as detailed in Smith *et al.* (2011). Indicator species for different habitat types or conditions and rare or declining species identified on relevant Red Lists (Wyse Jackson *et al.*, 2016; Lockhart *et al.*, 2012) were also noted.

Vascular plant nomenclature follows that of the Botanical Society of Britain and Ireland (BSBI) 'Complete list of taxon names from the BSBI's database'. As such, any name changes, including those outlined in Stace (2019), are not included. Bryophyte nomenclature follows the British Bryological Society (Atherton *et al.*, 2010).

# Freshwater aquatic

The aquatic habitat assessment was carried out on 18 and 19 July 2023. A total of 8 sites were assessed. The aquatic habitat assessment included surveys of the general river habitat, crayfish/lamprey/salmonid habitat potential and invasive aquatic species. The general physical characteristics and hydromorphological features of each site were recorded including substrate, flow types and aquatic vegetation during surveys. All sites were assessed in terms of:

- Stream width and depth;
- Substrate type, listing substrate fractions in order of dominance;
- Flow type, listing prevalence of flow types in the area;
- Instream vegetation, listing plant species occurring and their percentage coverage of the stream bottom at the sampled area;

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<sup>&</sup>lt;sup>1</sup> The DAFOR scale records each species' abundance as Dominant, Abundant, Frequent, Occasional, or Rare based on a semiquantitative description of each category.

- Dominant bankside vegetation, listing the main species overhanging the watercourse;
- Estimated cover by bankside vegetation, and estimated shading of the sampling site, and
- The degree of siltation was recorded on a scale of clean, slight, moderate and heavy, prior to kick sampling.

The rating of habitat for salmonids, crayfish and lamprey is on a scale of *None/Poor/Fair/Good/Very Good/Excellent*. This rating assesses the physical suitability of the habitat; the presence/absence/density of the species in question will also depend on present and historical water quality and accessibility of the section to these species.

# A rating of;

'**None'** indicates that the ecologist carrying out the assessment regards it as impossible that the watercourse could support the species in question in the relevant life stage.

'**None – Poor**' indicates that it is regarded as possible but extremely unlikely that the stream could support the species in the relevant life stage.

'Fair' indicates that it is possible that the stream section could support the species in question.

'Good' indicates that the ecologist considerers it possible and likely that the stream could support the species in question.

'Very Good' indicates that the stream certainly could support the species.

'Excellent' indicates that the ecologist regards the stream as the ideal habitat for the species in question.

# Invasive plants and animals

Habitat surveys recorded the presence and location of invasive alien plant species (IAPS). For the purpose of this assessment, IAPS are those contained within the third schedule to the European Communities (Birds and Natural Habitats Regulations) 2011-2015.

During all onshore biodiversity surveys of the site and wider ZoI, the potential was also noted for invasive alien animal species (IAAS). For the purpose of this assessment, IAAS are those contained within the third schedule to the European Communities (Birds and Natural Habitats Regulations) 2011-2015.

### 1.1.2 Fauna

# **Bats**

# Preliminary ground level roost assessment

A preliminary ground-level roost assessment was carried out during daylight hours, using close focusing binoculars, to identify features with suitability for roosting bats in trees and/or structures. This survey was conducted on 3 and 4 December 2019, 2 and 3 February 2021, 20 and 21 July 2022 and 25 and 26 April 2023 on trees within the footprint of the Project. The focus area for the bat roost assessment was the proposed tree/hedgerow removal associated with the onshore substation site, joint bays along the onshore cable route, horizontal directional drilling (HDD) entrance/reception pits along the onshore cable route, and the landfall location.

Trees were studied and assessed for the presence of features with suitability for roosting bats including cavities, frost cracks, trunk and branch splits, rot holes, and hollow sections of trunk and branches. The results of this assessment were used to grade trees and as having Negligible, Low, Moderate, or High

suitability for roosting bats with cognisance of the Bat Conservation Trust's (BCT) Bat Surveys for Professional Ecologists: Good Practice Guidelines (Collins, 2016)<sup>2</sup>.

# **Commuting and foraging habitats**

Site walkovers were completed on the 14 February 2019, 18 July 2019, 2 October 2019, 29 September 2020 and 20 and 21 of July 2022 to assess the potential suitability of the Project for bats, based on the presence of habitat features within the landscape. This assessment followed the BCT guidelines (Collins, 2016), which categorises the suitability of commuting and foraging habitats into negligible, low, moderate, and high, based on a combination of habitat features, connectivity, and professional judgement.

# Night-time bat walkover and static survey

Night-time bat walkovers (NBW) were conducted within the onshore substation site and the onshore cable route, using a combination of walked and car-based transects ('combined transect'). The focus area for the NBW was the onshore substation site, the onshore cable route, River Dee crossings, and the landfall. Sections of a pre-determined combined transect route were walked/driven a total of ten times over ten nights (seven dusk surveys and three pre-dawn surveys) on 14 August 2019 (dusk), 28 August 2019 (dusk), 19 September 2019 (dawn), 8 October 2019 (dusk), 29 September 2020 (dusk), 29 July 2021 (dawn), 26 August 2021 (dusk), 23 May 2023 (dusk), 5 July 2023 (dusk) and 6 September 2023 (dawn) during suitable weather conditions (i.e. temperature greater than 10° C, low wind, and no rain). The combined transect was completed in opposite directions in each subsequent survey. Weather details likely to influence bat activity (e.g. temperature, wind, and rain) were recorded at the beginning and end of each survey.

Walked bat activity transect surveys were carried out with cognisance of good practice guidelines (Collins, 2016; Marnell *et al.*, 2022), where dusk activity surveys commenced at sunset and ended a minimum of two hours after sunset, and pre-dawn activity surveys commenced two hours before sunrise and ended at sunrise. Two surveyors listened for bats using full-spectrum detectors (Anabat Scout and Elekon Batlogger M2) with headphones/speaker. The surveyors walked a fixed transect with predetermined Listening Points (LPs), where they detected statically for a five minute interval. Direct observations of bat activity (e.g. direction of flight and foraging or commuting behaviours) were recorded, where possible, during the transect surveys. Each walked transect was surveyed in-return or in a loop once for each survey.

Car-based bat activity transect surveys were carried out in accordance with Catto *et al.* (2004) and Roche *et al.* (2012), where a predetermined transect was driven at 24 kmph with a full-spectrum bat detector (Anabat Swift). The surveyors drove the fixed transect and stopped at LPs, where they detected statically for a five minute interval. The bat detector was clamped to the rear passenger door and positioned at 45° to the rear of the car in the horizontal plane and 45° to the vertical plane to minimise background noise and interference. Surveying began 45 minutes after sunset or three hours before sunrise and was completed within three hours after sunset or before sunrise. Where possible, surveyors listened for bats by connecting the phones output of the full-spectrum detector (Anabat Swift and Elekon Batlogger M2) to the vehicle sound system.

One 'static' (i.e. passive/stationary/automated) bat detector (Anabat Swift) was deployed to capture bat activity at the edge of a wooded area, adjacent to the onshore substation site (2019), where bat activity was expected based on an initial habitat suitability assessment, and along the River Dee at Drumcar (2023) adjacent to HDD proposals. The static detector was deployed for a total of 22 nights between 28 August and 19 September 2019, and for a total of 25 nights between 23 May and 5 September 2023 in suitable weather conditions.

Bat recordings were analysed using Anabat Insight (version 1.8.6). To remove background, noise trigger and smoothness levels were set to 6 and 13, respectively. A pre-set filter was then used to search for bat calls.

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<sup>&</sup>lt;sup>2</sup> At the time of undertaking suitability for roosting bat surveys (February 2019 – July 2022), the BCT Bat Surveys for Professional Ecologists: Good Practice Guidelines published in 2016 were applicable. New BCT Guidelines were issued in September 2023 (Collins, 2023)., however there is no change to the current baseline as a result of this updated guidance.

Bat identification on call data was conducted using *British Bat Calls: A guide to Species Identification* (Russ, 2016).

Bat recordings (2023 surveys) were analysed using Kaleidoscope Pro (version 5.6.2). This software compares the echolocation pulses of recorded bats to an integrated library of bat calls and automatically attributes recordings to specific species. For the input signal parameters, a frequency range of detection was set to 8-120 kHz while the length of detected pulses was set between 2 and 500 ms. A maximum intersyllable gap of 500 ms was selected. Bat recordings with a minimum of two pulses which satisfied these criteria were considered for identification and all other recordings were classified as noise. 10 % of all noise and *Pipistrellus* spp. files were manually checked while all files labelled as *Myotis* spp., *Nyctalus* spp. and calls with no auto-identification were manually checked to confirm identification. Bat identification was conducted using *Bat Calls of Britain and Europe: A Guide to Species Identification* (Russ, 2016).

# **Badger**

The European badger *Meles meles* survey methodology recorded any signs of badger activity, including the presence of setts, foraging evidence, access runs, tracks and prints, in accordance with Scottish Badgers (2018) and Harris *et al.* (1989). Where setts were discovered, usage of potential sett entrances and direction of tunnelling was also recorded.

Guidance from the NRA (2005) states that activities such as piling may cause disturbance to badger setts (triggering licencing) at distances of up to 150 m from the source. Although piling is not proposed for the onshore components of the Project, HDD is proposed at four locations. For these proposed locations, areas up to and beyond 150 m from the potential source of disturbance were assessed.

The focus area for the badger survey was, at a minimum, a distance of 50 m from the onshore substation site and the onshore cable route. These areas were systematically assessed for evidence of badger on 3 and 4 December 2019, 2 and 3 February 2021, 20 and 21 July 2022, and 26 April 2023.

# Otter

Surveys for otter were carried out on 22 and 23 October 2019, 3 and 4 December 2019, 2 and 3 February 2021, 20 and 21 July 2022, 26 April 2023 and 18 and 19 July 2023.

Watercourses, drainage ditches and wetland habitats within the onshore substation site and the onshore cable route were assessed for otter *Lutra lutra*. The survey methodology had regard for guidance of the NRA (2006) and included searches for breeding or resting sites within riparian habitats up to 150 m of the footprint of the Project to account for the potential effect of disturbance from noise and vibration. Evidence of otter including spraints, footprints, or feeding remains was recorded, where present.

# Other protected mammals

During all onshore biodiversity surveys of the Project, the potential was also noted for habitats of other protected terrestrial mammal species to occur including: hedgehog *Erinaceus europaeus*, pygmy shrew *Sorex minutus*, pine marten *Martes martes*, Irish stoat *Mustela erminea*, red squirrel *Sciurus vulgaris*, Irish hare *Lepus timidus hibernicus*, and red deer *Cervus elaphus*.

# **Birds**

# **Onshore**

# Onshore bird survey

An onshore bird survey of the onshore cable route from Dunany Point to the onshore substation site was carried out on a monthly basis over the period October 2018 to December 2019. The route follows existing roadways along its entire length. Except for one location (the site just west of the M1), the onshore cable route was divided into 500 m lengths and were labelled CR1 closest to Dunany Point to CR30 at the onshore substation site (see appendix 19-2: Intertidal Bird Survey and Onshore Bird Survey Reports).

The NRA (2009) note that large sites should be divided into sections and counts made from vantage points wherever possible. This approach was adapted, and the onshore cable route was divided into evenly spaced

500 m sections. At each location, the area was examined for birds present within approximately 10 m of either side of the road side, whether in the air, on the ground or in trees. Identification was made by eye or using 10 x 50 magnification binoculars. Each survey section along the onshore cable route was surveyed for a 10 minute period from a single static location. All surveys were carried out during daylight hours and survey dates were selected to coincide with periods of reasonably good weather.

# Breeding bird survey

Breeding bird surveys were carried out monthly from April 2023 to July 2023 along the onshore cable route. The survey methodology was adapted from the Breeding Bird Survey (Gilbert *et al.*, 1998) whereby all suitable breeding bird habitat associated with the onshore elements of the Project were slowly walked in a manner allowing the surveyor to come within 50 m of all habitat features (see Figure 1-1 for habitat mapping). Identification was made by eye, using binoculars (8 x 42 magnification) or by bird song. General location and activity were recorded using the British Trust for Ornithology (BTO) species and activity codes. All surveys were carried out during daylight hours, starting at 06:00 am (or at sunrise if later than 06:00am) and ending no later than noon. Survey dates were selected to coincide with periods of reasonably good weather.

# Intertidal

# 2017 - 2019 intertidal bird surveys

Two locations were surveyed for intertidal bird activity: the landfall location and a location on the north of Dunany point (Dunany north) (see appendix 19-2: Intertidal Bird Survey and Onshore Bird Survey Reports). The area surveyed encompassed approx. 100 m to the east and 100 m to the west of these locations. A field to the east of the Dunany north location was also surveyed during the monthly visits as this was noted to be used by migrating birds and waders. The observation point was located in a field raised approximately 1 m above the HWM at the Dunany north location and above the upper shore at the end of the road access onto the shoreline at the landfall location.

Surveys were carried out over a six hour period to include three hours prior to and three hours post high tide (Lewis and Tierney, 2014). Surveys were also carried out to cover a six hour period in which low water occurred.

Species behaviour, and location of birds were recorded using the designated habitats of subtidal, intertidal, supratidal and terrestrial (Lewis and Tierney, 2014). Bird counts were made for a 10 minute period on each hour using both binoculars (10 x 42 magnification) and a telescope. Seashore and seabird species were counted and their behaviour (e.g. foraging, roosting and flying) through the site were noted. Environmental conditions such as wind direction, weather, sea state and a qualitative description of the level of turbidity, were recorded throughout. Site disturbances during the survey (i.e. humans, dogs, horses) and their effect on the seabirds were recorded. The presence of fishing vessels, mainly razor clam suction vessels, was also recorded. Records were also kept of any marine mammals observed during the survey.

### 2023 intertidal bird survey

Intertidal bird surveys were carried out monthly from April 2023 to August 2023, focusing within a 300 m buffer of the landfall location. This 300 m extent has been based on a 'rule of thumb' as set out in Cutts *et al.* (2013) in the waterbird disturbance mitigation toolkit.

Surveys were carried out over a six hour period to include a range of times, focusing on the three hour window either side the high or low tide, alternating monthly.

Species, behaviour, and location/habitat of birds were recorded, with peak counts recorded for each survey. Equipment used included binoculars (10 x 42 magnification) and a telescope (20 - 60x eyepiece). Seashore and seabird species were counted and their behaviour (e.g. foraging, roosting and flying) through the site were noted. Environmental conditions such as wind direction, weather, sea state and a qualitative description of the level of turbidity, were recorded throughout. Site disturbances during the survey (i.e. humans, dogs, horses) and their effect on the seabirds were recorded. Records were also kept of any marine mammals observed during the survey.

# **Amphibians and reptiles**

During all onshore biodiversity surveys of the Project, the potential was also noted for amphibian and reptile habitats.

# **Invertebrates**

### **Terrestrial**

During walkover surveys of the Project and wider ZoI, the potential was also noted for habitats of protected invertebrate species to occur including marsh fritillary *Euphydryas aurinia* and small blue *Cupido minimus*. In the case of these two butterfly species, searches were made of suitable habitats for the larval food plants of marsh fritillary (devil's bit scabious *Succisa pratensis*), and small blue (kidney vetch *Anthyllis vulneraria*).

# Freshwater aquatic

Freshwater pearl mussel *Margaritifera margaritifera* and *Margaritifera durrovensis* surveys were not conducted as there are no records of this species from within the same catchment management unit (Newry, Fane, Glyde and Dee) as the Project.

A total of 8 sites were assessed. Assessment of the quality of white-clawed crayfish *Austropotambius pallipes* habitat was completed on the 18 and 19 July 2023, and was based on published information on the habitat criteria for crayfish (Holdich, 2003; Peay, 2002; Peay, 2003).

An aquatic bio-index assessment of each aquatic ecology survey site was undertaken, where possible, using benthic macroinvertebrates as bioindicators. Benthic macroinvertebrates are an excellent tool for water quality assessment as they exhibit differential responses to physical and chemical changes in their environment. Macroinvertebrate community diversity declines in the presence of pollution, and sensitive species are progressively replaced by more tolerant forms as pollution increases. As such, macroinvertebrates provide a realistic record of prevailing water quality conditions. Water quality at each survey location was inferred, where possible, using the EPA Q-value system. Small streams that were deemed by the surveyor to be unsuitable for aquatic bio-index assessment (e.g. small headwater streams) were assessed using the Small Streams Risk Score (SSRS), a biological risk assessment system for identifying rivers that are definitely 'at risk' of failing to achieve the 'good' water quality status goals of the Water Framework Directive (WFD). The SSRS methods were developed by the Environmental Protection Agency (EPA) in association with the Western River Basin District (WRBD) in 2006. Surveys were carried out on the 18 and 19 July 2023.

Macroinvertebrates were collected using a two-minute kick sampling method with a standard hand net (0.5 mm mesh). The survey technique adhered to the ISO Standard (10870:2012) for kick sampling. Stone washing was also undertaken to ensure collection of species which cling to rock surfaces. Where kick-sampling was not possible (e.g., where heavy siltation precluded the surveyor entering the river channel), macroinvertebrates were collected from the riverbank by pulling a standard hand net upstream along the riverbed to cover as much surface area as possible, whilst simultaneously agitating the stream bed. The margins of the stream bank were also swept as part of this assessment. Based on the area available to survey, sweeping was undertaken for 2-3 minutes. Macroinvertebrates were identified on the river bank and returned to the river on completion of analysis. Faunal composition was analysed on the bank side following SSRS methodology set out in EPA guidance document (Ryan *et al.*, 2015) and the EPA Q-value classification system as set out in Toner *et al.* (2005), as appropriate.

In summer/autumn, anthropogenic pressures are greatest on macroinvertebrates due to lower flows and higher temperature. The number of sensitive species expected in winter is higher due to a combination of flow and species life cycles and therefore the SSRS score may be higher in winter compared to summer/autumn samples. Similarly, the aquatic bio-index assessment is usually applied in summer/autumn when anthropogenic pressures are greatest on macroinvertebrates due to lower flows and higher temperature. The bio-index species composition with affinity to Q-value therefore be higher in winter compared to summer/autumn samples. However, Irish research has shown that Q values remain largely consistent across seasons (spring, summer and autumn) with few sites moving between status classes (Kelly-Quinn *et al.*, 2005).

The SSRS scores are categorised as follows:

- >7.25 stream 'probably not at risk';
- 6.5 to 7.25 stream 'probably at risk'; and
- <6.5 stream 'at risk'.</li>

Q-values and water quality groups were inferred using a combination of habitat characteristics and the structure of the macroinvertebrate community within the waterbody. Individual macroinvertebrate taxa are ranked for their sensitivity to organic pollution and the bio-index species composition with affinity to Q-value is determined based on their relative abundance within sample and reflects the average water quality at a location (see macroinvertebrate indicator groups in Table 1-1).

Table 1-1: Macroinvertebrate indicator groups.

Group	Indicator
Group A	Very Pollution Sensitive
Group B	Moderately Pollution Sensitive
Group C	Moderately Pollution Tolerant
Group D	Very Pollution Tolerant
Group E	Most Pollution Tolerant

The Environmental Quality Ratio (EQR) represents the relationship between the values of the biological parameters observed for a body of surface water and the values for these parameters in the reference conditions applicable to that body. The ratio is expressed as a value between zero and one, with high ecological status represented by values close to one and bad ecological status by values close to zero. In Ireland it is calculated as Observed Q-value/Reference Q-value (i.e. Q5). The EQR allows comparison of water quality status across the European Union as each Member State has an EQR value for 'High'; 'Good' etc., based on an intercalibration of boundaries between water quality categories (e.g. 'High-Good').

The Q-value is assigned on a scale of 1 to 5 with a Q5 representing high quality pristine conditions and a Q1 representing bad seriously polluted conditions. The intermediate values (Q1-2, 2-3, 3-4, etc.) denote transitional conditions. The scheme mainly reflects the effects of organic pollution (i.e., deoxygenation and eutrophication) but where a toxic effect is apparent or suspected the suffix '0' is added to the biotic index (e.g. Q1/0, 2/0 or 3/0). An asterisk after the Q value (e.g. Q3\*) indicates heavy siltation of the substratum. EPA indices, EPA water quality status and WFD status are interpreted in Table 1-2.

Table 1-2: EPA Biotic index (Q-value) and equivalent WFD water quality status groups.

Biotic index	Environmental quality ratio (observed/reference)	EPA quality status	Water Framework Directive (EPA, 2006) status
Q5	1.0	Unpolluted	High
Q4-5	0.9	Unpolluted	High
Q4	0.8	Unpolluted	Good
Q3-4	0.7	Slightly Polluted	Moderate
Q3	0.6	Moderately Polluted	Poor
Q2-3	0.5	Moderately Polluted	Poor
Q2	0.4	Seriously Polluted	Bad
Q1-2	0.3	Seriously Polluted	Bad
Q1	0.2	Seriously Polluted	Bad

Colour coding as employed under the WFD as specified in Schedule 3 of S.I. No 272 of 2009: High – blue, Good – green, Moderate – yellow, Poor – orange, and Bad – red.

# Fish

On 18 and 19 July 2023, each surveyed site was rated for its potential to support the three lamprey species that occur in Ireland (river, brook and sea lamprey). Assessment of the quality of lamprey habitat is based on published information on the habitat criteria for lamprey (Maitland, 2003). Lamprey habitat preferences change with the stages of their life cycle. They show a preference for gravel-dominated substratum for spawning similar to salmonids. After hatching, lamprey larvae (ammocoetes) swim or are washed downstream by the current to areas of sandy silt in still or slow flowing water where they burrow and spend the next few years in tunnels. Lampreys therefore require mainly silt and sand dominated substratum for nursery habitat. Other important environmental characteristics for optimal ammocoete habitat are shallow waters with low velocity, and the presence of organic detritus.

Suboptimal habitat supporting only a few individuals may consist of a few square centimetres of suitable silt in an open, comparatively high-velocity, boulder-strewn streambed. The following summarises the ecological requirements assessed for lamprey:

- Spawning habitat is broadly similar to that favoured by salmonids. Usually occurs at the tails of pools
  where the gravels have been deposited from upstream and the scouring of pools but the current is still
  reasonably fast with some water flow through the substrate;
- Larval nursery beds are at the edges of streams and rivers, well away from the main current, and that
  the current over them is often not only very slow, but is actually a backwater in reverse of the main
  current;
- Water depth in nursery areas is typically 0.1 to 0.5 m with silty/sandy substrate;
- Channelization can be damaging to lampreys, mainly through destruction of their habitat. The removal
  of areas of riffle and associated spawning gravels, and the dredging of essential nursery silt beds, may
  eliminate lampreys from a river; and
- Dams/weirs can be obstacles to upstream migration of sea lamprey.

Assessment of the quality of salmonid (salmon and trout) spawning, nursery and adult habitat is based on published information on the habitat criteria of salmonids (Bjorn & Reiser 1991; Hendry and Cragg-Hine, 2003), water quality criteria listed in the Salmonid Regulations (S.I. 293/1988). Habitat features important to the lifecycle of salmonids include; stream width, depth, flow type, substrate type, vegetation cover, gradient and altitude. These habitat requirements can vary during the life stages of salmonids and the proximity of juvenile habitat to spawning gravels may be significant to their utilisation. The more diverse the stream habitat in terms of substrate, flow rate, depth, riparian vegetation, light conditions, etc., the richer the biological community is likely to be, and the more suitable it is likely to be for salmonids.

The presence of overturned gravels lighter in colour compared to the rest of surrounding substrate is used to indicate the presence of salmonid redds. Excessive fine sediment can be detrimental to the survival of eggs by limiting the amount of dissolved oxygen to diffuse across the egg membrane. The presence of 10% fine sediment can reduce egg survival to hatching to 43% (Cocchiglia *et al.*, 2012). Fine sediment content of substrate is assessed visually and high levels present indicate reduce spawning habitat quality.

The habitat rating assigned applies to the salmonid species salmon *Salmo salar* which is considered to be more sensitive and less tolerant of pollution than trout *Salmo trutta*. Optimal habitat for brown trout is noted. The following summarises ecological requirement assessed for salmonids:

- Salmon spawning is likely to occur where the gradient of a river is 3% or less;
- Typical spawning sites are the transitional areas between pool and riffle where flow is accelerating and depth decreasing, where gravel of suitable coarseness is present and interstices are kept clean by upwelling flow;
- Salmon fry and parr occupy shallow, fast-flowing water with a moderately coarse substrate with cover;

- Deep or slow-moving water, particularly when associated with a sand or silt substrate, does not support resident juvenile salmonids;
- Suitable cover for juveniles includes areas of deep water, surface turbulence, loose substrate, large
  rocks and other submerged obstructions, undercut banks, overhanging vegetation, woody debris lodged
  in the channel, and aquatic vegetation;
- Adults require holding pools immediately downstream of spawning gravels in which they can congregate prior to spawning;
- Cover for adult salmon waiting to migrate or spawn can be provided by overhanging vegetation, undercut banks, submerged vegetation, submerged objects such as logs and rocks, floating debris, deep water and surface turbulence; and
- EPA Q-value of Q4 or higher.

Water Quality Criteria within the Salmonid Regulations S.I. 293/1988 include:

- pH ≥6 ≤9;
- Dissolved Oxygen (DO) ≥9 mg/l (50% off the time);
- Temperature downstream of point thermal discharge must not exceed (a) 21.5°C or (b) 10°C from 1 November to 30 April during reproductive season; and
- Sediment ≤25 mg/l (annual average).

# 1.2 Baseline environment

# 1.2.1 Desk study

Protected and rare fauna species returned from the desk study within a 5 km radius of the Project are detailed in Table 1-3.

Table 1-3: Protected and rare species returned from the NBDC desk study search within 5 km of the Project.

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences*
Flora (protected)					
Slender Thistle Carduus tenuiflorus	-	Near threatened	1	01/07/2018	Sandy banks and dry ground; occasional in centre and southeast Ireland, rare elsewhere; declining (Parnell and Curtis, 2012).
Mammals (terrest	rial)				
Eurasian Badger Meles meles	√e	-	77	23/04/2017	Varied habitats including grassland, woodland and Bog often near hedgerows or treelines and streams (Small, 1995).
Irish Hare <i>Lepus</i> timidus subsp. hibernicus	√ e	-	14	04/12/2017	Varied habitat preferences including bog, moor, heath, marsh, and pastoral farmland (Reid <i>et al.</i> , 2007).
European Otter Lutra lutra	<b>√</b> b, e	Near threatened	5	16/04/2013	Lakes and Ponds, watercourses, riparian woodland, estuaries, sea inlets and bays, saltmarshes,

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences+
					swamps.
West European Hedgehog <i>Erinaceus</i> <i>europaeus</i>	√e	-	4	05/05/2021	It is considered to be present in all lowland habitats where there is sufficient food to eat and ground cover for nesting, and commonest where grassland abuts mixed woodland and scrub. It appears to avoid coniferous woodland, blanket bog and other wet areas.
Lesser Noctule Nyctalus leisleri	✓ c,e	Near threatened	50	11/08/2014	Woodland species but it is also to be found in parkland, along treelines, pasture and riparian habitats, over lakes, beaches and dunes and above streetlights in urban areas. Not as dependent on linear features like hedgerows as our other bat species.
Common Pipistrelle Pipistrellus pipistrellus sensu lato	√c,e	-	67	11/08/2014	Highly adaptable species foraging along linear landscape features such as hedgerows and tree lines as well as within woodland and parkland. Roosting in old and modern structures in addition to trees and bat boxes.
Soprano Pipistrelle Pipistrellus pygmaeus	√c,e		31	11/08/2014	The Soprano forages along linear landscape features such as hedgerows and tree lines as well as within woodland however it has a notable preference for riparian habitats and it too has adapted to modern dwellings and lives in similar locations beneath roofing felt etc. Crevice dweller, but sometimes enters roof voids. Hibernates in a variety of places, which may be quite exposed. Frequently in cavities in buildings, rarely underground (Marnell et al., 2022).
Brown Long-eared Bat <i>Plecotus</i> <i>auritus</i>	<b>√</b> c,e	-	1	15/07/2013	Prefers to forage in parkland, open deciduous and coniferous woodland, orchards and gardens. They are frequently found in older buildings, in lofts, barns, stables etc. Usually, they cluster along the ridge beam or next to a chimney. The species also makes use of trees as summer roosts and colonise bat boxes readily.
Daubenton's Bat Myotis daubentonii  Mammals (Marine	√ c,e	-	11	25/08/2012	Calm, slow-moving water is chosen by Daubenton's Bat as it makes it easier for it to locate insects on the surface.  Sometimes forages in woodland, away from water. Habitats include but are not necessarily limited to; Semi-natural woodland, Highly modified non-native woodland, Building and artificial surfaces, Lakes and Ponds, Watercourses.

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences <sup>+</sup>
Common Porpoise Phocoena phocoena	<b>√</b> b, c, e	Threatened	1	28/09/2020	Native Irish resident. It is mostly found over continental shelf, very often within 10 kms of the coast. This species may be encountered in estuaries, bays and around coastal headlands.
Grey Seal Halichoerus grypus	<b>√</b> b, e	-	1	28/03/2021	Forages at sea, within the continental shelf boundary. The species may be expected to be encountered in a variety of coastal habitats both terrestrial and aquatic. Habitats may include but are not necessarily limited to; Marine water body, Littoral, Salt marshes, Brackish waters and Shingle and gravel banks.
Bottle-nosed Dolphin <i>Tursiops</i> <i>truncatus</i>	<b>√</b> b, e	-	1	18/08/2012	The Bottlenose Dolphin, in Irish waters, occurs out to the continental shelf, as well as a resident population occurring in the Shannon estuary. The species can occur in much deeper waters.
Common Dolphin Delphinus delphis	✓ <sub>C,e</sub>	-	1	04/10/2015	Habitats include but are not necessarily limited to open marine water.
Birds					
Barnacle Goose Branta leucopsis	<b>√</b> a,d	Amber List	4	31/12/2011	Local winter visitor from Greenland, occurring in Ireland between October & April. Mostly on remote islands in the northwest Ireland where it is relatively free from disturbance. Highly gregarious.
Barn Owl <i>Tyto</i> alba		Red List	16	07/01/2021	Scarce resident mainly in central and southern Ireland. Breeds in ruined buildings, such as castles and to a lesser extent in outbuildings (barns/sheds).
Bar-tailed Godwit Limosa lapponica	√a,d	Amber List	9	31/12/2011	Winter visitor to coastal estuaries from October to April wintering in estuaries. Feed along the tidal edge, or in shallow water (up to 15 cm depth).
Barn Swallow Hirundo rustica	-	Amber List	39	31/12/2011	Summer visitor throughout Ireland. Range of habitat preferences, flocks gather at wetland sites in autumn.
Bewick's Swan Cygnus columbianus subsp. bewickii	√a,d	Red List	1	31/12/2011	Low-lying wet pasture, lakes, ponds and stubble. The majority of the European population winters in Germany, the Netherlands and Britain. One of the potential reasons that the species has declined in Ireland is that Bewick's Swans find suitable sites in these countries and no longer need to fly as far west as Ireland.

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences⁺
Black Guillemot Cepphus grylle	-	Amber List	2	31/12/2011	Resident along all Irish coasts.  Nests amongst boulders at the base of cliffs, also in rock crevices and in man-made structures, such as piers. Will nest singularly and in loose colonies. Winters in the vicinity of its breeding sites and can be seen inshore throughout the year.
Brent Goose Branta bernicla	-	Amber List	1	31/12/2011	Winter migrant from high-Arctic Canada. Most occur in Ireland between October and April. This population winters almost entirely in Ireland, with small numbers in parts of Britain and France. Mostly found on coastal estuaries during the autumn and early winter, and also on grasslands from mid-winter, until departure for the breeding grounds begins in late April.
Black-headed Gull Chroicocephalus ridibundus	√d	Red List	23	31/12/2011	Resident along all Irish coasts, wintering inland also. Breading nests on the ground in wetland areas (i.e. bogs, marshes, manmade lakes). Widespread across agricultural fields, and urban areas.
Black-legged Kittiwake <i>Rissa</i> <i>tridactyla</i>	√d	Amber List	4	31/12/2011	Summer visitor to steep coastal cliffs along all Irish coasts. Disperses to the open ocean in winter and less frequently seen. Breeds on steep sea cliffs where it builds a nesting platform on the most vertical and sometimes improbably steep areas. Will occasionally use man-made structures such as old buildings.
Black-tailed Godwit <i>Limosa</i> <i>limosa</i>	√d	Red List	1	31/12/2011	Winter visitor to both inland and coastal estuarine habitats. Rare Irish breeding sites in lowland wet grassland and marshes.
Black-throated Diver Gavia arctica	√a	Amber List	2	31/12/2011	A scarce winter visitor to western and northern coasts from October to April to feed in Irish Waters.
Common Guillemot <i>Uria</i> aalge	√a,d	Amber List	6	31/12/2011	Resident to Irish coastal waters. Comes ashore to nest on cliff edges from May onwards.
Common Coot Fulica atra	√d	Amber List	12	31/12/2011	Resident at ponds and lakes throughout Ireland. Wintering in lakes, coastal estuaries and river systems.
Common Goldeneye Bucephala clangula	√d	Amber List	3	31/12/2011	Winter visitor between November and April on coastal estuaries and inland lakes.
Common Grasshopper Wabler <i>Locustella</i> naevia	-	Amber List	11	31/12/2011	Widespread summer visitor to Ireland from April to September. Winters in tropical west Africa.

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences <sup>+</sup>
Common Greenshank <i>Tringa nebularia</i>	√d	Amber List	2	31/12/2011	Winter visitor to estuaries from September to April.
Common Kestrel Falco tinnunculus	-	Amber List	32	31/12/2011	Widespread resident throughout Ireland. Nests in trees, buildings or in cracks in cliffs. Will use old crow's nests. Found in wide variety of open habitats including coasts, moor land, farmland, wetlands, roadside verges and town parks.
Common Kingfisher <i>Alcedo</i> <i>atthis</i>	√ad	Amber List	19	31/12/2011	Resident on Irish streams, rivers and canals. Wintering in lakes and coasts during extended periods of poor weather.
Common Linnet Carduelis cannabina	-	Amber List	33	31/12/2011	Widespread resident throughout Ireland. Breed in a variety of habitats, including rough grassland, uplands and in coastal areas with gorse.
Common Redshank <i>Tringa</i> totanus	√d	Red List	5	31/12/2011	Resident and visitor populations. A common wader of wetlands throughout the country, though mainly coastal estuaries in winter. Nests in grassy tussock, in wet, marshy areas and occasionally heather. Breeds mainly in midlands
Common Scoter Melanitta nigra	√d	Red List	1	31/12/2011	Resident and winter visitor to all Irish coasts, congregating in large flocks on shallow seas with sandy bottoms. Nest on islands with dense covering of scrub and tree cover.
Common Shelduck <i>Tadorna</i> <i>tadorna</i>	√d	Amber List	5	31/12/2011	Resident and winter migrant to sheltered estuaries or tidal mudflats. Breeds in open areas along seashores, larger lakes and rivers. Nest in holes in banks, trees, occasionally strawstacks or buildings. Increasing displacement to inland sites.
Common Snipe Gallinago gallinago	-	Amber List	21	31/12/2011	Summer and winter visitor to Ireland. They forage across a variety of wetland and damp habitats. Nests on the ground, usually concealed in a grassy tussock, in or near wet or boggy terrain.
Common Starling Sturnus vulgaris	-	Amber List	54	31/12/2011	Widespread garden bird, Irish resident. Foraging in grassland in parks, gardens and farmland, and trees. Also found in urban environments as well as woodland and farmland.
Common Swift Apus apus	-	Amber List	24	31/12/2011	Common summer visitor throughout Ireland. Nests in small recesses in buildings, both occupied and derelict. Less frequently in holes in trees or

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences <sup>+</sup>
					caves in uplands or coastal areas.
Dunlin Calidris alpina	√ad	Amber List	2	31/12/2011	Summer and winter visitor to coastal areas, tidal mudflats and estuaries are preferred. Breeding in machair habitats.
Eurasian Curlew Numenius arquata	√ <sub>d</sub>	Red List	21	31/12/2011	Winter visitor to Irish wetlands. Breeding throughout Ireland in floodplains, boglands, meadows, rough pasture and heather.
European Greenfinch Carduelis chloris	-	Amber List	50	31/12/2011	Irish resident widespread in hedgerows, parks and gardens.
Eurasian Oystercatcher Haematopus ostralegus	√d	Amber List	5	31/12/2011	Resident & winter visitor to all coastal habitats, and particularly favour open sandy coasts. Nests principally on shingle beaches, dunes, salt marshes and rocky shores around the coast.
Eurasian Sparrowhawk Accipiter nisus	-	Amber List	34	31/12/2011	Widespread in woodland, farmland with woods, larger parks and gardens. Nests in trees. Breeds throughout Ireland and ventures into urban gardens.
Eurasian Teal Anas crecca	√d	Amber List	9	31/12/2011	Resident & winter migrant. Wetland preferences in covered freshwater lakes, pools and small upland streams away from the coast. Wintering in coastal lagoons and estuaries and inland marshes, lakes, ponds and turloughs.
Eurasian Tree Sparrow Passer montanus	-	Amber List	31	31/12/2011	Local resident in the east of Ireland, scarce along the south and west coasts. Largely associated with cereal production. Nests in cavity in building, especially under eaves or holes formed by missing brickwork.
Eurasian Wigeon Anas penelope	√d	Amber List	5	31/12/2011	Fairly widespread and common winter visitor. Can be found in flocks up to and over 1000 birds on large wetlands and waterbodies. Non-breeding in Ireland.
Eurasian Woodcock Scolopax rusticola	-	Red List	10	31/12/2011	Resident & winter visitor to Ireland. Habitat preferences include woodland and areas of dead leaves and low vegetation, scrub and some open areas (bracken and heather-covered hills).
European Golden Plover <i>Pluvialis</i> <i>apricaria</i>	√a,d	Red List	9	31/12/2011	Widespread distribution during wintering in coastal and inland habitats. Summer populations restricted to uplands in NW Ireland with heather moors, blanket bogs, and acidic grasslands

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences <sup>+</sup>
European Shag Phalacrocorax aristotelis	<b>√</b> ad	Amber List	1	31/12/2011	Breeds all around the coast of Ireland wherever suitable cliffs exist. Nests on ledges, in crevices, in caves or under boulders. A colonial nester in loose colonies with prolonged breeding season. More plentiful on the west and south coasts but with notable concentrations in Co. Dublin.
Gadwall Anas strepera	√d	Amber List	2	31/12/2011	Localised wintering distribution at a variety of inland and coastal sites. Nest on a variety of freshwater and brackish wetlands, especially shallow lakes with abundant emergent vegetation, slow moving rivers and marshes.
Glossy Ibis Plegadis falcinellus	√a	-	1	07/08/2014	Resident in North Africa. A rare bird in Ireland.
Goldcrest Regulus regulus	-	Amber List	47	31/12/2011	A common resident throughout Ireland, mainly in coniferous forests. Goldcrests breed in a wide variety of habitats, including broadleaf forests, hedgerows and suburban gardens. It is also one of the few species that will breed in dense coniferous woodlands. Resident. In very cold weather may visit garden bird tables but prefers searching for insects in vegetation.
Goosander Mergus merganser	-	Amber List	1	31/12/2011	Resident at larger lakes in Counties Wicklow and Donegal. Rare winter visitor throughout Ireland. Irish birds appear to be largely resident. Birds from Continental Europe can occasionally be found along coastal areas in winter.
Great Black- backed Gull Larus marinus	-	Amber List	6	31/12/2011	Resident along all Irish coasts. Breeds on the ground in colonies all around the coast of Ireland. Most colonies are on well- vegetated offshore islands, or in other areas difficult of access.
Great Cormorant Phalacrocorax carbo	√ d	Amber List	6	01/12/2016	Resident, some immigration during the winter. Breeds in colonies mainly around the coast of Ireland, with some birds breeding inland. Most of the larger coastal colonies in Ireland are on the south and north west coasts with big colonies also in Co. Dublin. Birds on the coast breed on cliffs whilst those inland, in trees. Winters at sea and inland.
Great Crested Grebe Podiceps cristatus	√ d	Amber List	5	31/12/2011	Winter distribution is widespread with greatest concentration in the north midlands and northeast and

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences⁺
					birds from the continent join the resident population. Outside the breeding season are often solitary with some birds moving to the coast through the winter. Breed on large, shallow eutrophic loughs, and along canals and slow flowing rivers – wetlands with emergent vegetation bordered by open water are generally selected.
Great Northern Diver <i>Gavia immer</i>	<b>√</b> a,d	Amber List	2	31/12/2011	Great Northern Divers occur along the Irish coastline between September and April and are usually observed as single birds or small groups. They are the most numerous of the divers occurring in Ireland and are particularly abundant off the south, west and northwest coasts over the winter. Do not breed in Ireland.
Greater Scaup Aythya marila	-	Amber List	2	31/12/2011	Winter visitor to coastal estuaries and bays, on brackish lagoons and in shallow marine waters, usually less than 10 m in depth. Does not breed in Ireland.
Great Spotted Woodpecker Dendrocopos major	-	Amber List	2	31/12/2011	Recent colonist to broadleaf forests in eastern Ireland. Breeding in oak woodlands with some coniferous woods nearby.
Greenland White- fronted Goose Anser albifrons subsp. flavirostris	<b>√</b> a,d	Amber List	1	31/12/2011	Greenland race (Anser albifrons flavirostris). Winters in Ireland and Scotland. Highly gregarious. Traditionally occurred in peatland areas, though now mostly seen feeding on intensively managed grasslands. Scarce winter visitor to wetlands in Wexford and western Ireland from October to April.
Grey Plover Pluvialis squatarola	√d	Amber List	2	31/12/2011	Distribution in Ireland is widespread, but exclusively coastal. They occur mostly along eastern and southern coasts, most often on large muddy estuaries. They regularly roost among dense flocks during high tide, while their distribution is more scattered while feeding.
Greylag Goose Anser anser	-	Amber List	6	31/12/2011	Winter migrant between November & April wintering mostly at coastal sites near estuaries and grasslands for feeding. Feral birds are present year round. Breeds by lakes and reservoirs, with the nest site often close to water and hidden in reeds or other waterside vegetation.

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences <sup>+</sup>
Hen Harrier <i>Circus</i> cyaneus	<b>√</b> a,d	Amber List	3	31/12/2011	Winter visitor to low-lying countryside along the coast. Breeding in upland areas and bogs confined to heather moorland and young forestry plantations.
Herring Gull Larus argentatus	√d	Red List	8	31/12/2011	Resident along all Irish coasts, breeding inland also. Widespread distribution.
House Martin Delichon urbicum	-	Amber List	35	31/12/2011	Common summer visitor throughout Ireland. Nests usually sited underneath the eaves of a house. Also nests on cliffs.
House Sparrow Passer domestiherrcus	-	Amber List	54	06/05/2021	Widespread garden bird, Irish resident. Breeds throughout Ireland - mainly around farm buildings and built-up areas. Nests in cavity in building, especially under eaves or holes formed by missing brickwork.
Jack Snipe Lymnocryptes minimus	-	Amber List	2	31/12/2011	Summer and winter visitor to Irish wetlands. Feeds in dense grass and low cover.
Lesser Black- backed Gull Larus fuscus	√d	Amber List	2	31/12/2011	Summer populations are distributed across the Irish coastline including off shore islands, islands in inland lakes, sand dunes and coastal cliffs. Winter visitors to more inland lakes.
Little Egret Egretta garzetta	√a	-	1	31/12/2011	Resident along coasts and rivers throughout Ireland. A variety of wetland habitats are used including shallow lakes, riverbanks, lagoons, coastal estuaries and rocky shoreline.
Little Grebe Tachybaptus ruficollis	√d	Amber List	16	31/12/2011	Resident on vegetated ponds and lakes throughout Ireland. Wintering habitat extends to include ephemeral wetlands and are often encountered on sheltered coasts, estuaries and coastal lakes and lagoons.
Little Gull Hydrocoloeus minutus	√a	Amber List	1	01/12/2016	Winter visitor to east and south Irish coasts from October to March and scarce passage migrant in spring and autumn. Does not breed in Ireland.
Little Tern Sternula albifrons	<b>√</b> a,d	Amber List	1	17/09/2016	Rare summer visitor from April to late August to shingle or sandy beaches, mainly on the east and west coasts.
Mallard Anas platyrhynchos	√d	Amber List	50	31/12/2011	Widespread in almost all available wetland habitats in Ireland. Nest sites vary, mostly in ground where hidden in vegetation.
Mediterranean Gull <i>Larus</i> melanocephalus	√a	Amber List	4	31/12/2011	Winter visitor from September to April. Regularly breeds, at Ladies Island Lake in Co. Wexford.

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences⁺
					Prefers low lying islands near the coast on which to breed. Bulk of the population breeds in eastern Europe with smaller populations found in western Europe.
Merlin Falco columbarius	✓ a,d	Amber List	5	31/12/2011	Favours upland habitats in summer and lowland and coastal sites October-April. Nesting on the ground on moorland, mountain and blanket bog. Also nests in woodland and has taken to nesting in forestry plantations adjacent to moorland.
Mew Gull Larus canus	-	Amber List	12	31/12/2011	Widespread across Irish coastland. Nests on the ground in a wide variety of situations, including, islands, cliffs and shingle banks. Breeds on the coast and inland lakes in the west of Ireland.
Mute Swan Cygnus olor	-	Amber List	25	31/12/2011	Resident at wetlands throughout Ireland.
Northern Fulmar Fulmarus glacialis	√d	Red List	4	31/12/2011	Can be seen in Irish waters throughout the year, but winters at sea. Mainly breeds on sea cliffs, but will nest on level ground, on buildings and in burrows and crevasses.
Northern Gannet Morus bassanus	√d	Amber List	1	31/12/2011	Resident along all Irish coasts, wintering at sea, but can be seen in Irish waters throughout the year. Breeds in colonies on islands off the coast. Three main Gannet colonies are located off the coast of Wexford. Cork and Kerry. A small colony is also found on Irelands Eye, Co. Dublin.
Northern Lapwing Vanellus vanellus	√d	Red List	25	31/12/2011	Irish resident and summer visitor across wetlands, pasture and rough land adjacent to bogs. Breed on open farmland and bare fields.
Northern Pintail Anas acuta	√d	Red List	1	31/12/2011	Local winter visitor to wetlands throughout Ireland from October to March. In winter, they form large flocks on brackish coastal lagoons, in estuaries and on large inland lakes.
Northern Shoveler Anas clypeata	√d	Red List	2	31/12/2011	Resident & winter migrant. Most occur between October and March. Prefer shallow eutrophic waters rich in plankton and occur on a variety of habitats while wintering in Ireland, including coastal estuaries, lagoons and inland lakes and callows.
Pale-bellied Brent Goose <i>Branta</i> <i>bernicla</i> subsp.	-	Amber List	1	31/12/2011	Winter migrant. Most occur in Ireland between October and April. This population winters

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences⁺
Hrota					almost entirely in Ireland, with small numbers in parts of Britain and France. Mostly found on coastal estuaries during the autumn and early winter, and also on grasslands from mid-winter.
Peregrine Falcon Falco peregrinus	✓a,d	-	8	31/12/2011	Widespread resident in Ireland favouring coastal sites and cities with high vantage points.
Purple Sandpiper Calidris maritima	√d	-	3	31/12/2011	Winter visitor to Irish coasts between September & April. Favour rocky shorelines, headlands, islands and harbours, also occur on sandy shorelines where rotting seaweed is piled up.
Razorbill <i>Alca</i> torda	√d	Amber List	3	31/12/2011	Resident, though occur inshore/ land during the breeding season, March/April to August/September. Winters at sea. Nests on sea cliffs. Will also use more secluded nest sites, fissures in the cliffs and also in screes.
Red Knot Calidris canutus	√d	Red List	1	31/12/2011	Winter visitor to Irish coasts between October & February. The preferred habitat mostly includes estuarine sites with extensive areas of muddy sand. They occur mostly in large flocks and on fewer estuaries than other wader species. Breed at low density, and often close to the coast, nesting on well concealed and sparsely vegetated gravel and rocky slopes.
Red-breasted Merganser Mergus serrator	√d		2	31/12/2011	Resident and winter visitor to brackish and marine waters, particularly in shallow protected estuaries and bays and lagoons, and also offshore. Nest on sheltered lakes and large rivers throughout the west and north of the country, though they are largely absent from Clare and a few pairs have been recorded in Wexford.
Red-throated Diver Gavia stellata	√a,d	Amber List	1	31/12/2011	Winter visitor to all Irish coasts from September to April. There is a very small breeding population in County Donegal. During the winter they are well distributed around the Irish coastline and are typically associated with shallow sandy bays. In Ireland they breed on small fresh water loughs. Ireland is the most southerly breeding location in the species' range.
Ringed Plover Charadrius hiaticula	√d	Amber List	4	31/12/2011	Resident & winter visitor. Peak numbers between August and early October. Winter around the entire coastline but are quite

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences <sup>+</sup>
					sparse along the north and southeast coasts. Mostly recorded along sandy stretches or along the upper shores of estuaries and non-estuarine coastline.
Roseate Tern Sterna dougallii	√a,d	Amber List	1	17/09/2016	Rare summer visitor from April to October, the majority breeding at two sites in the Irish Sea, with another colony in Wexford. Birds have bred at other sites recently, for example on Dalkey Island, Co. Dublin and on the Blasket Islands Co. Kerry. Rockabill holds the most important colony in Europe with up to 1,200 pairs of birds. The colony at Lady's Island is much smaller with around a hundred pairs.
Ruddy Turnstone Arenaria interpres	√d	-	2	09/11/2019	Winter visitor, occurs late July to late April. Winters all around the Irish coast, particularly on rocky shores, headlands, islands and piers. Does not breed in Ireland.
Ruff Philomachus pugnax	√a	Amber List	1	31/12/2011	Scarce spring & autumn passage migrant in small flocks in marshes, fields and mudflats. Small numbers winter on estuaries along the southern coast of Ireland.
Sand Martin Riparia riparia	-	Amber List	11	31/12/2011	Widespread summer visitor throughout Ireland. Breed in burrows dug into river banks or quarries.
Sanderling Calidris alba	√d	-	2	31/12/2011	First seen along the Irish coastline in July or August, though most arrive in Ireland between September & April. Found along sandy coastlines, especially non-estuarine.
Sandwich Tern Sterna sandvicensis	√a,d	Amber List	4	18/06/2016	Summer visitor to all Irish coasts from March to September. Nest colonially on the ground, mainly on the coast but with some colonies inland. Nests on islands, shingle spits and sand dunes. Winters in small numbers in Galway Bay and Strangford Lough.
Short-eared Owl Asio flammeus	-	Amber List	2	31/12/2011	A scarce winter visitor throughout Ireland and rare breeding species in upland locations, mainly in the south and east. Favours uplands and coastal lowlands.
Sky Lark Alauda arvensis	-	Amber List	40	31/12/2011	Common resident throughout Ireland in uplands and areas of farmland, especially cereal. Breeds in a variety of habitats including cultivated areas, ungrazed grasslands and upland heaths. Winters in flocks on

Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences⁺
					stubble fields, grasslands and coastal areas.
Slavonian Grebe Podiceps auritus	√a	Amber List	1	31/12/2011	Scarce winter visitor to coastal areas from October to March. Prefer sheltered bays and estuaries on all Irish coasts. Rarely seen on larger lakes. Does not breed in Ireland.
Spotted Flycatcher Muscicapa striata	-	Amber List	21	31/12/2011	A widespread summer visitor to broadleaf woodlands, well-vegetated hedgerows, parks and gardens.
Stock Pigeon/Stock Dove Columba oenas	-	Amber List	38	31/12/2011	A widespread resident throughout Ireland favouring areas of cereal cultivation. Breeds in lowlands of eastern and southern Ireland, almost invariably near agricultural areas, especially cereal. Nests in holes in trees.
Stonechat Saxicola torquata	-	Amber List	9	31/12/2011	Widespread resident in scrubland throughout Ireland, mainly near the coast. Scarce in the midlands. Favours Gorse and upland bracken.
Tufted Duck Aythya fuligula	-	Red List	6	31/12/2011	Resident & winter visitor.  Preference for large open lakes in lowland areas for breeding, where nests are built in waterside vegetation. Also seen on town lakes, canals and slow-moving rivers.
Twite Carduelis flavirostris	-	Red List	3	31/12/2011	A declining breeding species mainly on the north and west coast of Ireland. A scarce winter visitor to northeast coasts. The majority of breeding Twite remain relatively close to their breeding areas, though some may move considerable distances. The Irish population is joined in winter by some of the Scottish population, which tend to winter in coastal marshes and tilled fields along the north and northeast coasts (Antrim, Down and Louth). The total wintering population is estimated to be between 650 to 1,000 birds.
Velvet Scoter Melanitta fusca	-	Red List	4	31/12/2011	A rare winter visitor to all Irish coasts, usually associating with Common Scoters. The main wintering grounds lie in the southern Baltic and eastern North Sea.
Water Rail Rallus aquaticus	-	Amber List	6	31/12/2011	Resident at wetlands throughout Ireland. Widespread.
Whooper Swan Cygnus cygnus	✓a,d	Amber List	8	31/12/2011	Winter visitor to wetlands and nearby open farmland throughout Ireland. Breeding in open shallow water, by coastal inlets, estuaries

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Species name	Legislative protection*	Red List status	Record count	Date of last record	Habitat preferences⁺
					and rivers
Yellowhammer Emberiza citrinella	-	Red List	54	06/05/2021	Declining resident mainly in the east and south of Ireland. Strongly linked with the cultivation of cereals.
Amphibian					
Common Frog Rana temporaria	√e	-	8	21/07/2020	Native to Ireland. Uses a broad habitat range including lakes and ponds, grassland and marsh, wet heath, peatlands, woodland and scrub, dune slacks, machair, and riparian habitats.
Smooth Newt Lissotriton vulgaris	<b>√</b>	-	2	12/09/2021	Ireland's only native newt species, surprisingly widespread in Ireland, and can be found in many garden ponds.
Invertebrates					
Wood White Leptidea sinapis	-	Near threatened/ least concern*	2	03/06/2018	Specialist on grassy forest clearings and limestone pavement. In dull weather adults may be found resting on flowerheads.
Large Red Tailed Bumble Bee Bombus (Melanobombus) lapidarius	-	Near threatened	2	06/08/2020	Found in a wide range of habitats, including parks and gardens. Has declined from the agricultural landscape
Small blue Cupido minimus	-	Endangered	1	24/07/2021	Specialist, unimproved dry calcareous grassland, coastal grey dunes, machair, limestone pavement, calcareous moraine and scree.
Fish					
Basking Shark Cetorhinus maximus	-	Threatened	1	13/08/2012	Prefers cold and temperate waters of the continental shelves with an average temperature range of 8-14 °C.

<sup>\*</sup> Legislative Protection: a = Annex I Birds Directive, b = Annex II Habitats Directive, c = Annex IV Habitats Directive, d = Special Conservation Interest bird species (within SPA), e = Wildlife Act (excluding birds); f = third schedule of the European Communities (Birds and Natural Habitats Regulations) 2011-2015.

Table 1-4: Invasive alien species returned from the NBDC desk study search within 5 km of the Project.

Species name	Legislative protection*		Record count	Date of last Record	Habitat Preferences*		
Invasive alien flora							
Giant Hogweed Heracleum mantegazzianum	√ <sub>f</sub>	-	2	28/06/2009	Mires, bogs & fens; Grasslands and landscapes dominated by forbs, mosses or lichens; Woodland, forest and other wooded land; Constructed, industrial or other artificial habitats; Regularly or recently cultivated agricultural, horticultural or domestic habitat.		

<sup>&</sup>lt;sup>+</sup> Habitat preferences: Birdwatch Ireland (https://birdwatchireland.ie/irelands-birds-birdwatch-ireland, accessed March and November 2019) and NBDC (https://species.biodiversityireland.ie/, accessed November 2023).

Japanese Knotweed Reynoutria japonica	√f	-	4	05/09/2019	Found in a wide variety of habitats though particular established and persistent on urban waste ground, roadsides and river banks (Preston <i>et al.</i> , 2004; Reynolds, 2002).
Salmonberry Rubus spectabilis	√ <sub>f</sub>	-	1	21/04/2018	Favours moist conditions and open sites. Moderately shade tolerant. Naturalised in many areas such as parks, riverbanks, demesnes, broadleaved and coniferous woodland.
Water Fern Azolla filiculoides	a √f	-	1	27/02/2019	Inland surface waters.
Invasive alien ar	nimals				
Eastern Grey Squirrel Sciurus carolinensis	√f	-	2	31/12/2012	Woodland, forest and other wooded land; Constructed, industrial or other artificial habitats; Regularly or recently cultivated agricultural, horticultural or domestic habitat; Miscellaneous.
Greylag Goose Anser anser	√f	-	6	31/12/2011	Lakes and reservoirs, occurring mostly at coastal sites.
Ruddy Duck Oxyura jamaicensis	√ <sub>f</sub>	-	1	31/12/2011	Inland surface waters.

<sup>\*</sup> Legislative Protection: f = third schedule of the European Communities (Birds and Natural Habitats Regulations) 2011-2015.

# 1.2.2 Field study

# **Habitats**

Habitats detailed during the field study within the ZoI of the Project are illustrated in Figure 1-1; which includes the relevant habitat codes from Fossitt (2000) for onshore habitats (terrestrial and freshwater). A summary of each habitat is provided within this section.

# **Freshwater**

# FW2 Depositing/lowland rivers

Depositing/lowland rivers were recorded crossing and within the ZoI of the Project. Six named rivers were identified, with two of these rivers being crossed twice each (i.e. the River Dee and the Port Stream). Lowland rivers and streams identified (Common name; EPA name) within the ZoI of the Project include:

- Rock Stream (Rock 06);
- River Dee (Dee) (crossed twice);
- Newhall Stream (Newhall 06);
- Salterstown Stream (Salterstown);
- Port Stream (Port 06) (crossed twice); and
- Broadlough Stream (Broadlough).

<sup>†</sup> Habitat preferences: Birdwatch Ireland (https://birdwatchireland.ie/irelands-birds-birdwatch-ireland, accessed March and November 2019) and NBDC (https://species.biodiversityireland.ie/, accessed November 2023).

Freshwater habitat descriptions from surveys undertaken in 2023 at eight sites (Figure 1-5) from the above watercourses are detailed in Table 1-5.

Table 1-5: Freshwater Habitat Descriptions.

# Site code/ name

# Freshwater aquatic habitat results

A-1 / Rock 06 Stream

### **Survey Results**

This site comprised a small headwater stream which was accessed from the N33. Bankfull width was 2 m, whereas wetted width was 1.2 m. Water depth was 0.15 m. A thick layer of silt was noted within the channel, which was measured at approximately 0.5 m in depth. The substrate comprised 100% silt and a high plume was generated when disturbed. The channel was choked with vegetation, with fool's-water-cress Apium nodiflorum and Phalaris recorded. The river habitat comprised approximately 80% pool and 20% glide. Velocity was slow and flow discharge was low. The channel has been historically channelised and straightened. Surrounding landuse comprised improved pasture and scrub. The riparian buffer comprised woodland/scrub on the left bank and scrub on the right bank. Bankside vegetation included willow salix sp., hawthorn Crataegus monogyna, ivy Hedera helix, nettles Urtica dioica, ash Fraxinus excelsior and soft shield fern Polystichum setiferum. Two pipes (approximately 30 cm diameter) underneath the N33 convey the stream from its source directly upstream. There was a very shallow flow present within the pipes with a maximum depth of 5 cm.





Site A1 looking downstream. Photographs taken 19 July 2023.

Site A1 looking upstream.

A-2 / River Dee at N33 bridge crossing

### **Survey Results**

The channel of the River Dee has been historically dredged as part of arterial drainage schemes and this is reflected in the high banks, widened and straightened profile and deep flow that characterised this section of the river. A groyne/deflector was noted on the left bank at the N33 bridge. Flow discharge was high and turbidity moderate which affected visibility of the riverbed from the N33 bridge. It was not possible to enter the river due to high flow and deep water depths (assumed to be >0.6 m in places). Instream habitat consisted of 100% glide. Cobbles, gravel and boulders were visible within parts of the channel, with cobble dominating the substrate. The riparian buffer comprised trees and shrubs, and was estimated at being between 2 and 5 m in width. Riparian vegetation consisted of dogwood *Cornus sanguinea*, hazel *Corylus avellana*, willow, ash, ivy, brambles *Rubus fruticosus*, sycamore *Acer pseudoplatanus*, rose *Rosa* sp., cypress *Cupressus* sp, birch, alder *Alnus glutinosa* and hawthorn. Land use was dominated by tillage and improved pasture with industry yards on both banks downstream.





Site A2 looking upstream Photographs taken 19 July 2023.

Site A2 looking downstream

A-3 / River Dee at Drumcar Bridge

# **Survey Results**

Bankfull width of the River Dee was measured at approximately 10-12 m, whereas wetted width was measured at between 8 and 10 m. The channel was considerably wider at the bridge (approximately 20 m). Bank reinforcement was noted in places. Visibility of the river bed was poor due to moderate colour and turbidity. However, where the riverbed was visible, it was comprised of boulder (c. 5%), sand (c.10%), cobble (c. 35%), coarse gravel (c. 25%) and fine gravel (c. 25%). Water depth was estimated at 0.5-1 m and bank height at 2 m. Siltation was low, and when the substrate was kicked a low plume was generated. Cattle access was noted upstream and downstream of the survey location. Bank erosion was moderate where cattle had access to the river. The dominant river habtiats were riffle (c. 40%), glide (c. 30%) and pool (30%). Reeds *Phragmites*, water-crowfoot *Ranunculus* sp., *Fontinalis* and *filamentous algae* were noted in the channel.

The riparian buffer was approximately 1-2 m in width, and included ash, sycamore, bramble, snowberry *Symphoricarpos albus*, bindweed *Convolvulus* sp., common hogweed *Heracleum sphondylium*, nettle, alder, common ragwort *Jacobaea vulgaris* and hawthorn. Trees were sparsely distributed on the left bank with grazing of the understorey noted. Vegetation on the right bank was considerably more scrubby and dense. A lamprey *Lampetra* sp.was captured in the macroinvertebrate kick sample collected at the site.





Site A3 looking downstream Photographs taken 18 July 2023.

Site A3 looking upstream

### A-4 / Newhall 06 Stream

### **Survey Results**

This stream was surveyed at a point where it flowed parallel to a rural road. Bankfull width was measured at 2 m whereas wetted width was measured at 1.5 m. Water depth was 0.2 m. The channel has been straightened. Siltation was moderate and a moderate plume of silt was generated when the substrate was disturbed. Visibility of the stream bed was poor due to high turbidity and high flow discharge. Velocity was fast. River habitat comprised 50% riffle and 50% glide. The substrate comprised c. 60% cobble, c. 30% coarse gravel and c. 10% fine gravel. The riparian buffer was between 2 and 2.5 m in width, and comprised unmanaged scrub. Species recorded included great willowherb *Epilobium hirsutum*, hedge bindweed *Calystegia sepium*, ash, dock *Rumex* spp., cleavers *Galium aparine*, meadowsweet *Filipendula ulmaria*, hawthorn, nettle, bramble, common hogweed, soft shield fern and ivy. Surrounding landuse comprised tilage, scrub and the roadside.





Site A4 looking downstream Photographs taken 18 July 2023.

Site A4 looking upstream

# A-8 / Salterstown Stream downstream Site 6

### **Survey Results**

The stream at Site 8 was approximately 1.7 m in width (bankfull and wetted width), and 0.15 m in depth. The stream was slightly wider at the bridge. The stream appears to have been historically straightened and was reinforced with stone on the right bank. Some light erosion was noted on the right bank. The bridge itself was not deemed to be a barrier to fish migration. Siltation within the channel was moderate and a high silt plume was noted when the bed was disturbed. The substrate comprised boulder (5%), cobble (60%), coarse gravel (20%) and fine gravel (15%). Flow discharge was normal on the day of survey, with fast velocity and low turbidity noted. Shading was heavy. River habitat comprised riffle, pool and glide sequence. The invasive Japanese knotweed *Reynoutria japonica* was recorded on the right bank by the bridge (see Figure 1-1). Riparian vegetation comprised sycamore, elm *Ulmus* sp., brambles, ivy, elder, nettles, soft shield fern and cleavers. The riparian buffer was a narrow treeline on both banks, with gardens recorded behind the treelines on both the left and right bank. Two elvers (juvenile eels) were captured within the macroinvertebrate kick-sample collected at the site.





Site A8 looking downstream Photographs taken 19 July 2023.

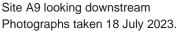
Site A8 looking upstream

### A-9 / Port 06 Stream

### **Survey Results**

This stream is approximately 1.5 m wide (wetted and bankfull width). Water depth was approximately 0.3 m. The stream appears to have been historically straightened. Two other tributaries enter the stream at this site (Ardballan Stream and Wyanstown Stream). The channel was choked with aquatic vegetation comprising *Phalaris*, great willowherb, and manna grass *Glyceria sp.* Where visible, the substrate consisted of 100% silt, and a silt layer approximately 0.15 m deep was recorded in the channel. Velocity was slow, and flow discharge was normal. The river habitat consisted of 100% glide. Shading was moderate. The riparian buffer was between 3 and 5 m in width and was dominated by herbs and grasses including hedge bindweed, great willowherb, nettle, creeping thistle *Cirsium arvense*, meadowsweet, yorkshire fog *Holcus lanatus*, false oat grass *Arrhenatherum elatius*, herb robert *Geranium robertianum* and bush vetch *Vicia sepium*. Woody vegetation comprised elder, hawthorn and sycamore. The dominant landuse comprised rough pasture.







Site A9 looking upstream

A-10 / Port 06 Stream upstream Site 9

### **Survey Results**

This site is located upstream of Site 9. The stream was straightened and choked with vegetation. Bankfull width was 3 m, whereas wetted width was approximately 1.2 m. Water depth was estimated at 0.5 m. The substrate was not visible but is likely to have been dominated by silt. Flow discharge was low and velocity was stagnant. River habitat was 100% pool with no perceptible flow. Instrem vegetation consisted of flag iris *Iris pseudacorus*, water mint *Mentha aquatica*, lesser duckweed *Lemna minor*, *Phalaris*, fool's-water-cress and water cress *Nasturtium* sp. The riparian buffer was narrow, with grazing noted up to the banktop. Riparian vegetation consisted of rushes *Juncus* sp., gorse *Ulex europaeus*, bramble, creeping thiste, great willowherb and meadowsweet.





Site A10 looking upstream Photographs taken 18 July 2023.

Site A10 looking downstream

A-11 / Broadlough Stream

## **Survey Results**

The Broadlough stream has been modified into a drainage ditch. Bankfull width and wetted width was measured at 2 m. Bank height was 1.8 m. Water depth was 0.15 m, and a deep layer of silt (c. 0.5 m) was noted within the channel. The substrate comprised 100% silt. Flow discharge was low, and velocity was slow and stagnant in places. Shading was moderate. River habitat comprised 100% pool. Instream vegetation was dense and comprised fat duckweed *Lemna gibba*, fool's-water-cress and the third schedule invasive water fern *Azolla filiculoides*. The riparian buffer comprised a treeline on the left bank and tillage and woodland on the right bank. Bankside vegetation comprised hawthorn, ivy, bindweed, ash, nettle, hoary willowherb *Epilobium parviflorum*, brambles, spear thistle *Cirsium vulgare*, lime *Tilia* sp., great willow herb and willow.





Site A11 looking upstream Photographs taken 19 July 2023.

Site A11 looking downstream

# FW4 Drainage ditches

Drainage ditches were noted with high frequency throughout the landscape. These habitats were often located along one or both sides of the local road network. The drainage ditches encountered during the aquatic survey contained varying cover of vegetation but were mostly heavily silted. Due to their extensive distribution and relatively small size, these habitats have not been mapped.

# Grassland

# GA1 Improved agricultural grassland

Improved grassland habitat was identified within the ZoI of the Project. This habitat occurs throughout the study and occurs within the footprint at the following locations:

- Joint bays 10, 13, 17, 18, 21, 23, 26, 28 and 29;
- HDD at both River Dee crossings and Togher (joint bay 23); and
- The field south of the N33 for the fibre optic cable connection.

The improved agricultural grassland at these locations was a mix of permanent grassland and planted grasslands as part of arable rotation. A species-poor sward was typically dominated by ryegrasses *Lolium* spp., with varying occurrences of dandelion *Taraxacum* agg., creeping buttercup *Ranunculus repens*, plantains *Plantago* spp., stinging nettle, thistles *Cirsium arvense* and *C. vulgare*, daisy *Bellis perennis*, bush vetch, common ragwort and docks.

# **GS1** Dry neutral grassland

Situated on a steep-sloping vegetated bank adjacent to the landfall location, either side of the existing M1 motorway and west of JB23 (where HDD is proposed), this habitat was dominated by a grasses and lady's bedstraw sward (10-50 cm high), with frequent red clover *Trifolium pratense*, white clover *Trifolium repens*, yarrow *Achilea millefolium*, bird's-foot trefoil *Lotus corniculatus*, occasional meadow vetchling *Lathyrus pratensis* and wild carrot *Daucus carota* and rare occurrences of autumn hawkbit *Leontodon autumnalis*, spear thistle, bush vetch, silverweed *Potentilla anserina*, ribwort plantain *Plantago lanceolata*, and colt's-foot *Tussilago farfara*.

# GS2 Dry meadow and grassy verges

Grassy verge habitat was identified either side of the majority of the local roads and hedgerows within the ZoI of the Project. These habitats are likely mown at least once a year and contained varying abundances of hogweed, stinging nettles, creeping thistle, bramble, meadowsweet, cleavers, broad-leaved dock *Rumex obtusifolius*, tufted vetch *Vicia cracca*, great willowherb, lady's bedstraw, butterbur *Petasites hybridus*, prickly sowthistle *Sonchus asper*, hart's tongue fern *Asplenium scolopendrium*, lesser burdock *Arctium minus*, and scaly male-fern *Dryopteris affinis*.

A dry meadow located east of the River Dee crossing at Drumcar bridge contained a grass dominated sward with bent grass *Agrostis* spp., Yorkshire-fog *Holcus lanatus*, and meadow foxtail *Alopecurus pratensis*. Occasional common ragwort and stinging nettles were noted with rare occurrences of broadleaved dock, creeping thistle, and yarrow. The eastern section of the field was waterlogged in winter 2019 (during the winter mammal survey).

A dry meadow located west of Charleville Bridge (M1 crossing) contained a grass dominated sward with red fescue *Festuca rubra*, creeping bentgrass *Agrostis stolonifera* and cock's-foot *Dactylis glomerata*. Frequent red clover and stinging nettles along with occasional ribwort plantain, hoary willowherb and bush vetch were noted. Additionally, broadleaved dock, common ragwort, creeping cinguefoil, creeping thistle and autumn hawkbit were of rare occurrence. Intermittent gorse scrub also present.

Grassy verge habitats were not mapped but are presumed to be adjoining all mapped hedgerows (WL1) and roadways.

### Cultivated and built land

### **BC1** Arable crops

Several areas have been identified as arable crop, including the onshore substation site, agricultural fields adjoining the onshore cable route, and the landfall location. The following floristic habitat descriptions are focused on the onshore substation site and landfall.

As expected, floristic diversity was limited within the arable crop habitats, although the landfall location contained an abundance of wild grasses, with occasional perennial sowthistle *Sonchus oleraceus*, hairy tare *Vicia hirsuta*, creeping speedwell *Veronica filiformis*, white clover and rare occurrence of scarlet pimpernel *Anagallis arvensis*.

This habitat also occurs within the footprint at the following locations:

- Joint bays 7, 9, 12, 14, 15, 16, 19, 24 and 25;
- Transition joint bay option 2; and
- HDD east of M1 crossing and west of River Dee crossing at the N33.

# Coastland

# **CB1 Shingle and gravel banks**

The offshore cable corridor comes onshore at a landfall location south of Dunany Point (South). A shingle bank is present here, extending from the scrub (WS1) and dry calcareous and neutral grassland (GS1) habitats (described in this section), to below the HWM. Vegetation was restricted to the upper section of shingle and contained a single species of rare occurrence, curled dock *Rumex crispus*.

Below the shingle bank a tidal mudflat and sandflat was present. A full description of intertidal habitat, including tidal mudflat and sandflat, is available in volume 2B, appendix 8-1: Intertidal Phase 1 Report.

# CS3 Sedimentary sea cliffs

Sedimentary sea cliff habitat was noted at Dunany Point (within Dunany Point pNHA) at the landfall location. Boulder clay was evident along the cliff face and there were signs of erosion and cliff collapse throughout.

The sedimentary sea cliffs was dominated by tall fescue *Festuca arundinacea*, with an abundance of red fescue. Creeping cinquefoil *Potentilla reptans*, great horsetail *Equisetum telmateia*, ribwort plantain, creeping thistle, and ivy were occasional, while wild carrot, dandelion, butterbur and kidney vetch were rarely recorded. Where the lower limit of the sedimentary sea cliffs adjoined the shingle beach, sea beet *Beta vulgaris* was occasionally present.

The scrub exhibited a low height (approximately 1.5 m) with abundant presence of brambles accompanied by varying abundances of gorse *Ulex europaeus*, meadowsweet, great willowherb, cleaver, creeping thistle, creeping cinquefoil, white clover and prickly sowthistle.

This habitat also occurs within the footprint at the following location:

• Transition joint bay (i.e. option 1 and option 2).

# Woodland and scrub

### WN2 Oak-ash-hazel woodland

An oak-ash-hazel woodland was identified during the desk study and has been described in the National Parks and Wildlife Service (NPWS) ancient woodland dataset as ash-ivy woodland group, and sycamore – hawthorn vegetation type. This approximately 10 ha woodland is located approximately 600 m east of the onshore substation site and approximately 10 m north of the onshore cable route. This woodland was not surveyed as part of the field study as it is outside the footprint of the Project.

# WD1 (Mixed) broadleaved woodland

Mixed species broadleaved woodland was identified at three locations along the onshore cable route; at a location adjacent to the onshore cable route, approximately 400 m west of the landfall location, at a location approximately 30 m southwest of joint bay 11, and at a location east of the River Dee crossing at Drumcar.

The woodland near to the landfall location is several metres from the onshore cable route and is dominated by beech *Fagus sylvatica*. This planted woodland has a Forest Service Forest inventory (Forest ID 118046).

The small patch of woodland southwest of joint bay 11 is planted. This woodland is dominated by birch with ash dominant along the perimeter. Other species noted include hazel, sycamore and grey willow *Salix cinerea*.

The woodland near the eastern River Dee crossing is within the onshore cable route, located north of the local road. This woodland had a canopy dominated by mature beech with a line of conifers along the road and an understorey dominated by holly. This planted woodland has a Forest Service Forest inventory (Forest ID 118045).

# WD2 Mixed broadleaved/conifer woodland

Mixed broadleaved and conifer woodland was identified at two locations along the onshore cable route, one adjoining the onshore substation site and one at a location east of the River Dee at Drumcar. The woodland at the onshore substation site was dominated by spruce *Picea* spp. with occasional presence of elder, ash, sycamore, grey willow, horse chestnut *Aesculus hippocastanum* and black poplar *Populus nigra*. The woodland east of the River Dee had a canopy dominated by scots pine and mature beech, and an understorey dominated by holly.

# **WS1 Scrub**

Scrub habitat was recorded on the top of the shoreline (transition joint bay - option 1), adjacent to the landfall location, within a field west of the M1 (north of joint bay 8), at joint bay 20 along Togher road and

also on the eastern bank of the eastern River Dee crossing. The floristic assemblages of these four locations reflected the differences between the four areas.

The scrub adjacent to the coastal landfall location exhibited a low height (approximately 1.5 m) with abundant presence of brambles accompanied with gorse, meadowsweet, great willowherb, cleaver, creeping thistle, creeping cinquefoil, white clover, ivy, coltsfoot *Tussilago farfara*, goosefoot *Chenopodium* sp., yellow bartsia *Parentucellia viscosa*, common ragwort and prickly sowthistle.

The scrub near the River Dee was generally high (1-4 m) and dominated by hawthorn along with Elder, bramble, common ragwort, creeping thistle and cleavers.

The scrub located along Togher road at joint bay 20 was generally dense and high (1.5-3 m) located on a slope. It was dominated by bramble, stinging nettle with frequent common hogweed and ivy. Occasional herb robert and hart's-tongue fern were also noted. A stone cut bank-face is present along the boundary.

The scrub located with a field adjacent to the M1 was generally high (1.5-3 m) and consisted only of gorse and bramble.

### WS2 Immature woodland

Immature woodland recorded within the redline was restricted to the planted areas along the N33. These strips of woodland were dominated by dogwood, hazel, blackthorn, hawthorn and privet *Ligustrum Ovalifolium*, with a varying abundance of ash, guelder rose *Viburnum opulus*, alder, birch, grey willow, sycamore, Norway maple *Acer platanoides*, spindle *Euonymus europaeus*, gorse, elder and field maple *Acer campestre*. The features of the woodland associated with each of the joint bays is detailed in Table 1-6. The immature woodland ranges from approximately 2-8 m in height and 2-10 m in width.

A section of immature woodland was also noted on the N33, at the entrance into the onshore substation site. This woodland is composed of hawthorn, guelder rose, dogwood, hazel, and privet; approximately 6-7 m in height and approximately 10 m wide.

Table 1-6: Features of hedgerow associated with joint bays.

Joint Bay Reference	Habitat Description Within Planning Application Boundary
JB-1	Hazel, alder, dogwood, blackthorn, birch; approximately 10 m high, approximately 10 m wide; unmanaged.
JB-2	Hazel, dogwood, guelder rose, blackthorn, willow; approximately 5 m high, approximately 10 m wide; unmanaged.
JB-3	Dogwood, blackthorn; approximately 3 m high, approximately 3 m wide. Heavily managed and cut back.
JB-4	Dogwood, guelder rose, grey willow, hazel, privet; evidence of toping management; approximately 2-3 m high.
JB-5	Dogwood, sycamore, hazel, privet, Norway maple, grey willow' approximately 3-4 m high; unmanaged.
JB-6	Hazel, privet, birch, larch, dogwood; approximately 5 m high; unmanaged
JB-7	Spindle, hazel, birch, ash, Norway maple, field maple; approximately 5-8 m high; unmanaged.
JB-8	Sycamore, hazel, field maple, dogwood, alder, Norway maple, grey willow, elder, Scots pine, bramble; approximately 8 m in height; approximately 3-4 m wide; managed on sides.

#### **WL1 Hedgerows**

Hedgerows were recorded extensively within the ZoI of the onshore components of the Project. Hedgerow habitat description focuses on the onshore substation site and the onshore cable route. No hedgerow was recorded at the landfall location.

The onshore substation site was bounded by patchy, moderately managed, hedgerow of varying height, which was dominated by ash, with occasional hawthorn, grey willow, hybrid poplar *Populus alba x tremula*, and sycamore, and rare occurrences of mature beech.

Hedgerow adjoining the road network, in which the onshore cable route will be located, displayed a high degree of variation in height, thickness, species composition, and management intervention. In general, hedgerows were managed by cutting, at least once a year, and were dominated by ash, hawthorn, and blackthorn. Varying frequencies of elder, small-leaved elm *Ulmus minor*, sycamore, grey willow, hornbeam *Carpinus betulus*, cherry laurel *Prunus laurocerasus*, wild cherry *Prunus avium*, *viburnum* spp., hazel, black poplar, lime, beech, and horse chestnut were recorded. The majority of the hedgerows also contained bramble, dog rose *Rosa canina*, ivy. Hedgerow habitat was associated with grassy verges (GS2), which has been described in this section. When visited after a heavy rainfall event, several hedgerow ditches turned wet and were heavily immersed in water up to their understorey.

Hedgerow encloses the arable field at the landfall in which the transition joint bay (option 2) may be located. Hedgerow along the eastern boundary was dominated by sycamore, hawthorn and ash. The majority of the hedgerows also contained bramble, ivy, winter heliotrope *Petasites fragrans*, nettles, Alexanders *Smyrnium olusatrum* and daisy. Hedgerow habitat was associated with grassy verges (GS2), which has been described in this section. The noteworthy features of specific location of proposed hedgerow removal/alteration are detailed in Table 1-7.

Table 1-7: Features of Hedgerow Associated with Joint Bays.

Joint bay reference	Habitat Description Within Planning Application Boundary
JB-9	Ash dominated with ivy, hawthorn and sycamore; approximately 10 m in height; lower section managed – cut on sides.
JB-10	Ash dominated with ivy, bramble, holly, hawthorn, alder and sycamore; approximately 2 m in height; heavily managed – cut on all sides.
JB-11	Hawthorn dominated with ash and bramble; approximately 1.5 m in height; heavily managed – cut on all sides.
JB-12	Blackthorn and Ash dominated with hawthorn, sycamore, holly, ivy and bramble; approximately 2 m in height; heavily managed – cut on all sides.
JB-13	Stone wall – no hedgerow.
JB-14	Ash, hawthorn and blackthorn dominated with sycamore, ivy and bramble; approximately 1.3 m in height; heavily managed – cut on all sides.
JB-15	Ash and blackthorn dominated, with ivy, bramble, and dog rose. Gappy hedgerow with few mature trees approximately 2-3 m in height; heavily managed – cut on all sides excluding mature trees.
JB-16	Ash and blackthorn dominated with bramble; approximately 2-3 m in height; heavily managed – cut on all sides.
JB-17	Ash dominated with willow, blackthorn, ivy, holly and bramble; approximately 1.5 m in height; heavily managed – cut on all sides.
JB-18	Ash dominated with hawthorn, blackthorn, ivy, and bramble; approximately 3 m in height; heavily managed – cut on all sides.
JB-19	Blackthorn, ivy, and bramble; approximately 1.5 m in height; heavily managed – cut on all sides; mature ash (x2) unmanaged approximately 8 m in height.
JB-20	Hawthorn, spindle, dogrose, elder, willow, honeysuckle, gorse, ivy and bramble; heavily managed on two sides.
JB-21	Hawthorn, ash, and sycamore dominated approximately 4 m in height; heavily managed on two sides – top unmanaged.
JB-22	No hedgerow; church carpark with amenity grassland/grassy verge.

Joint bay reference	Habitat Description Within Planning Application Boundary
JB-23	Blackthorn, bramble, hawthorn and ash; approximately 3 m in height; managed hedgerow – cut on all sides. Gappy hedgerow in east with mature ash, hawthorn and sycamore. As the hedgerow moves further east, it becomes less prominent and gradually changes in vegetated bank.
JB-24	Ash, hawthorn, ivy, willow and bramble approximately 1.5 m in height; heavily managed – cut on all sides.
JB-25	Hawthorn dominated with ivy and bramble; approximately 2.5 m in height; heavily managed – cut on all sides.
JB-26	Hawthorn dominated with bramble; approximately 1.5 m in height; heavily managed – cut on all sides.
JB-27	Bramble, blackthorn and elder with ash and hawthorn; approximately 1.5 m in height; heavily managed – cut on all sides.
JB-28	No assessment – no hedgerow removal
JB-29	Hawthorn and ash dominated with bramble, ivy and blackthorn; approximately 2.5 m in height; heavily managed and gappy along southern end– cut on all sides.

#### **WL2 Treelines**

This habitat is distinguished from WL1 hedgerows by their linear representation, often being planted, along with a poorly developed understory and a typical height range of greater than 5 m. Treelines were identified along the bank of the eastern River Dee proposed crossing, and also along the local road to the east of that same proposed crossing.

The treelines located along the River Dee were significantly more diverse, with pedunculate oak *Quercus robur*, alder, sycamore, ash and white willow *Salix alba*; while the treeline along the north of the local road was dominated by planted Cypress, spruce spp., and ash.

### Protected flora/species of conservation concern

No plants protected under the Flora Protection Order 2022 were recorded during the field study. All vascular plants recorded within and adjacent to the Project site were of 'Least Concern' or were unlisted on the Irish Red List for vascular plants (Wyse Jackson *et al.*, 2016).

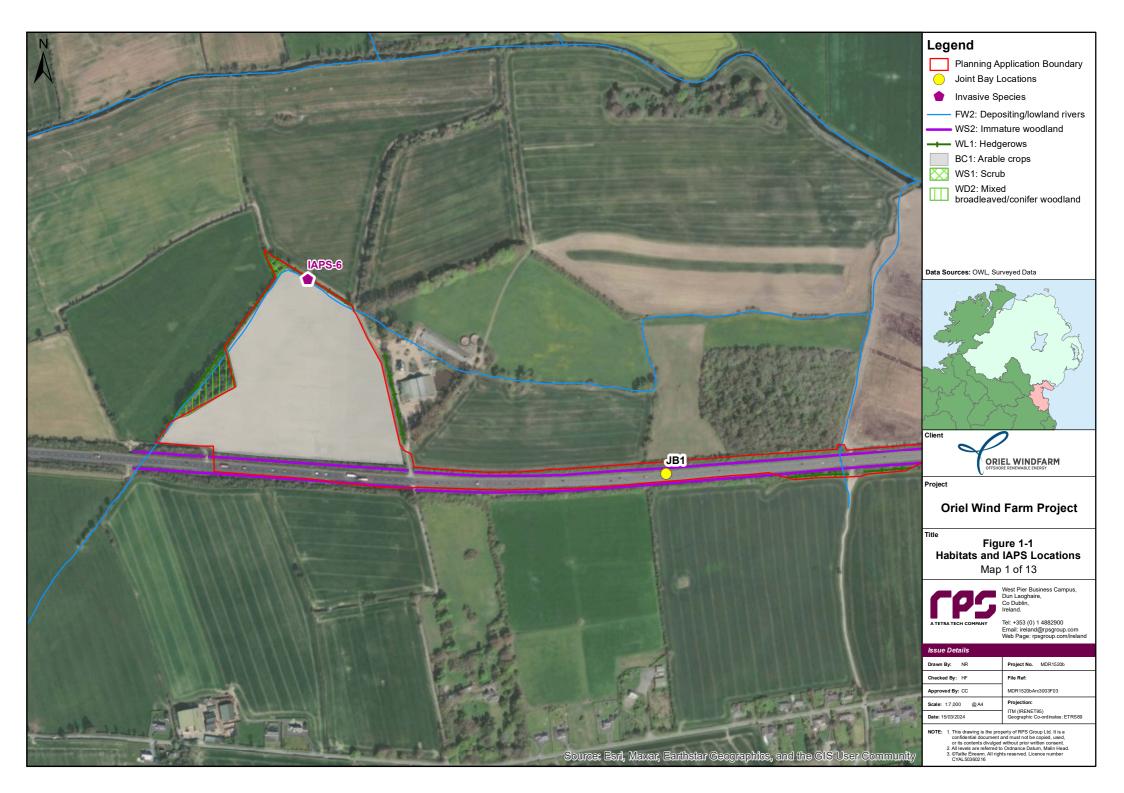
### Invasive plants and animals

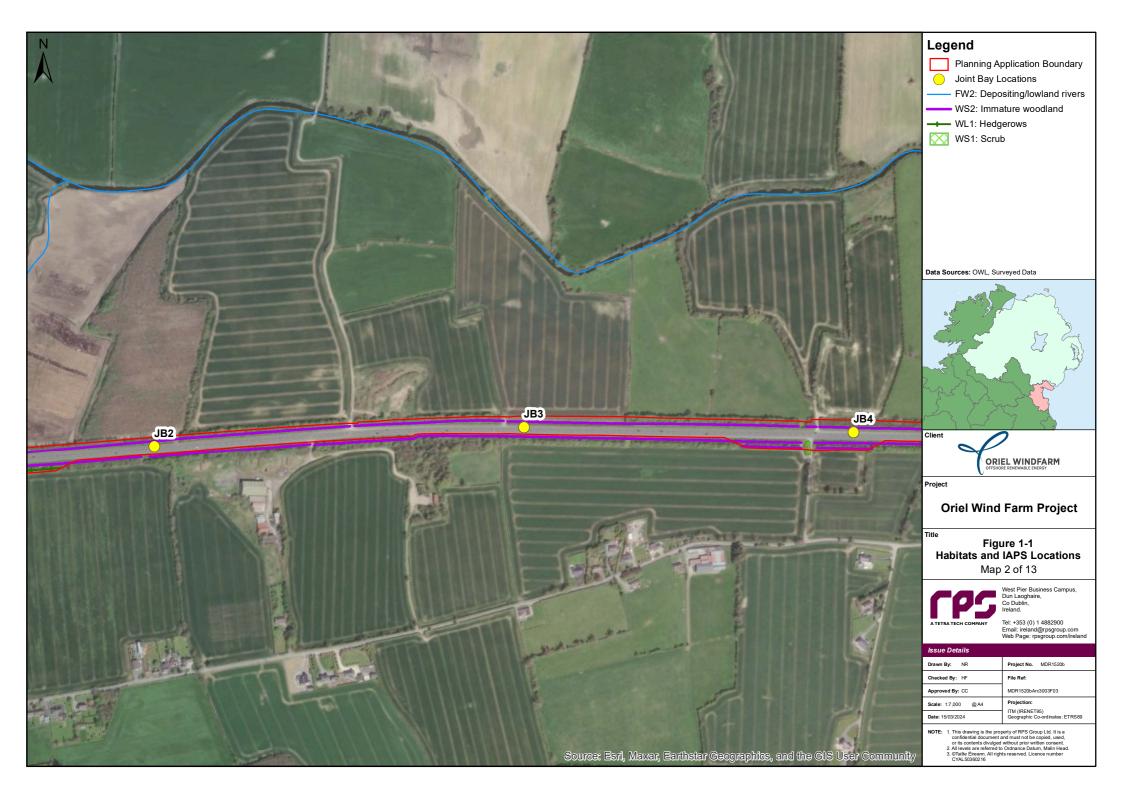
Two 'scheduled' invasive species were recorded within the ZoI of the Project during the field study. The species, location, and description of these occurrences are detailed in Table 1-8 and shown in Figure 1-1.

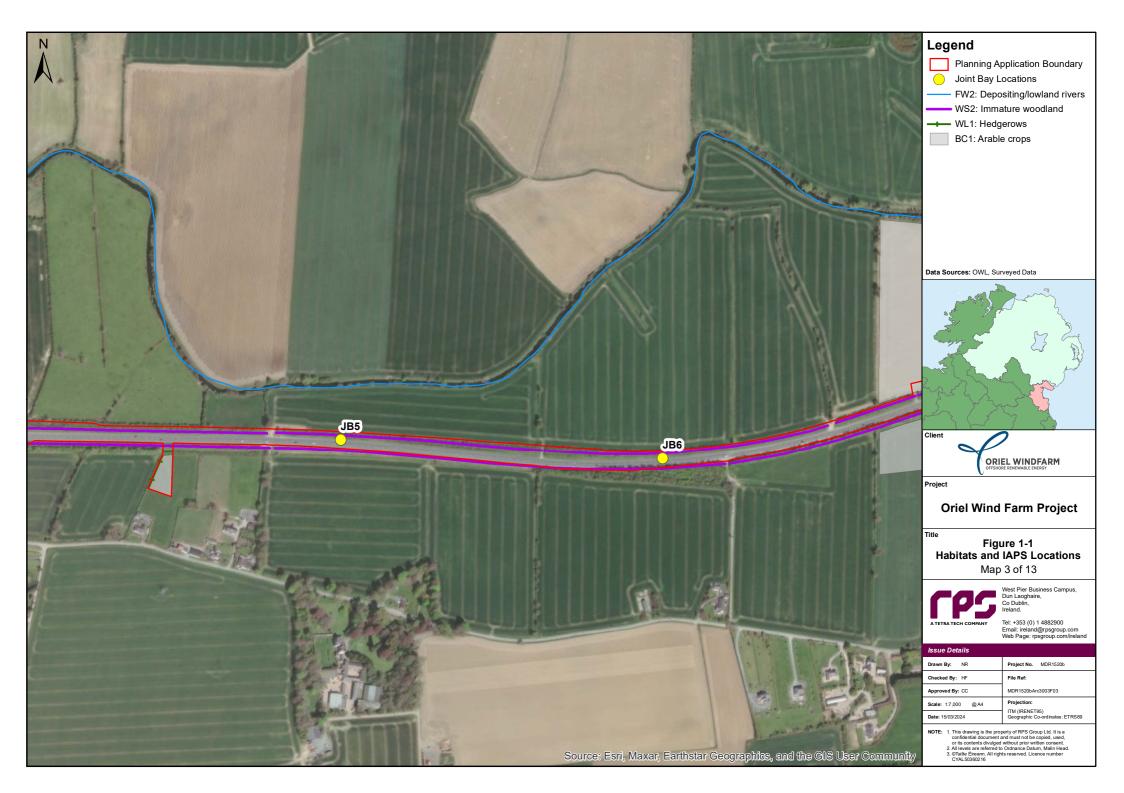
Table 1-8: Locations of invasive plant and animal species recorded during the field study.

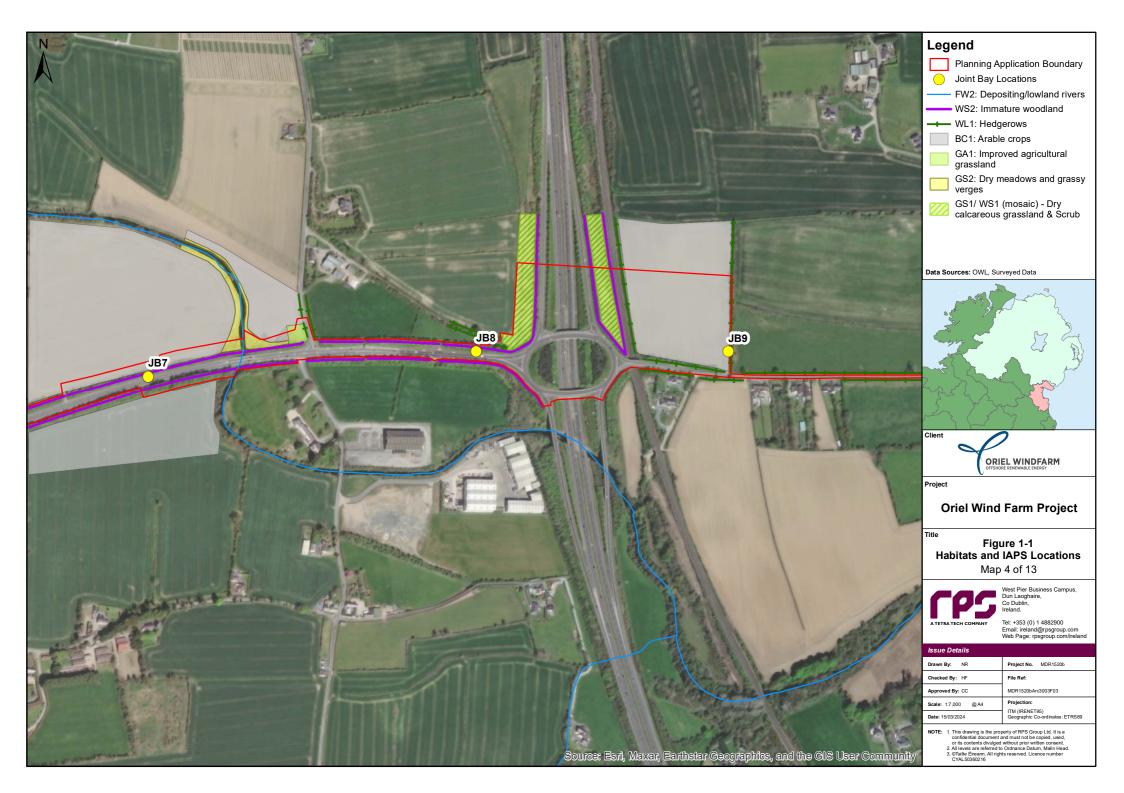
Map code	Species	Description and location (ITM)
IAPS-1	Japanese knotweed Reynoutria japonica	Patch identified on the south bank to the east of the bridge. No signage or evidence of previous treatment (714393-789621).
IAPS-2	Japanese knotweed Reynoutria japonica	North side of road 20 m x 10 m patch, south side of road 20 m x 5 m patch. Signage present and evidence of previous treatment (712927-791354).
IAPS-3	Japanese knotweed Reynoutria japonica	North side of road at junction with local road, 12 m x 4 m patch. No signage or evidence of previous treatment (712700-788995).
IAPS-4	Japanese knotweed Reynoutria japonica	North side of road, two patches 7 m x 1 m and 10 m x 2.5 m. No signage but treatment evident. Dead branches buried under soil and new sprouting showing (712244-789036).
IAPS-5	Japanese knotweed Reynoutria japonica	South side of road, one patch 8 m x 3 m. No signage but management (cut and sprayed) (710189-789263).
IAPS-6	Japanese knotweed	Within Drumcar woodland, single stand 1 m x 1 m. No signage or evidence

Map code	Species	Description and location (ITM)		
	Reynoutria japonica	of previous management (706539-791130).		
IAPS-7	Water fern Azolla filiculoides	Within watercourse on northeast boundary of field containing proposed onshore substation (698199- 791250).		

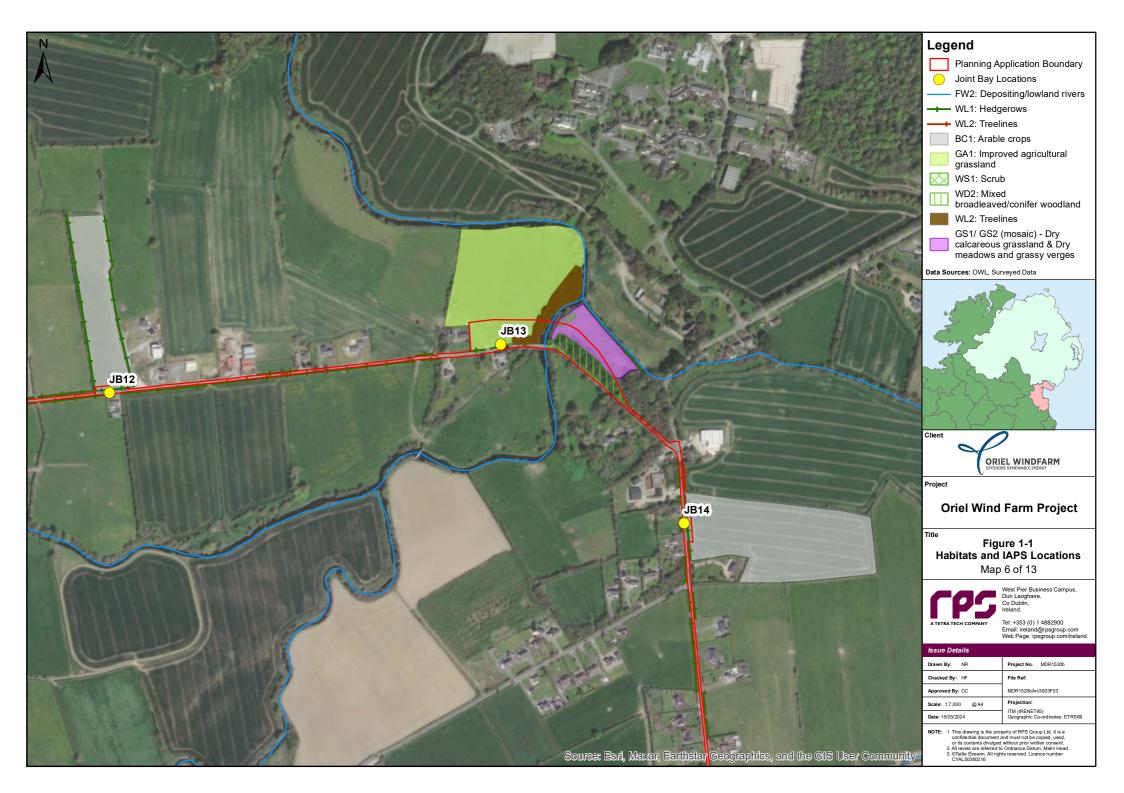






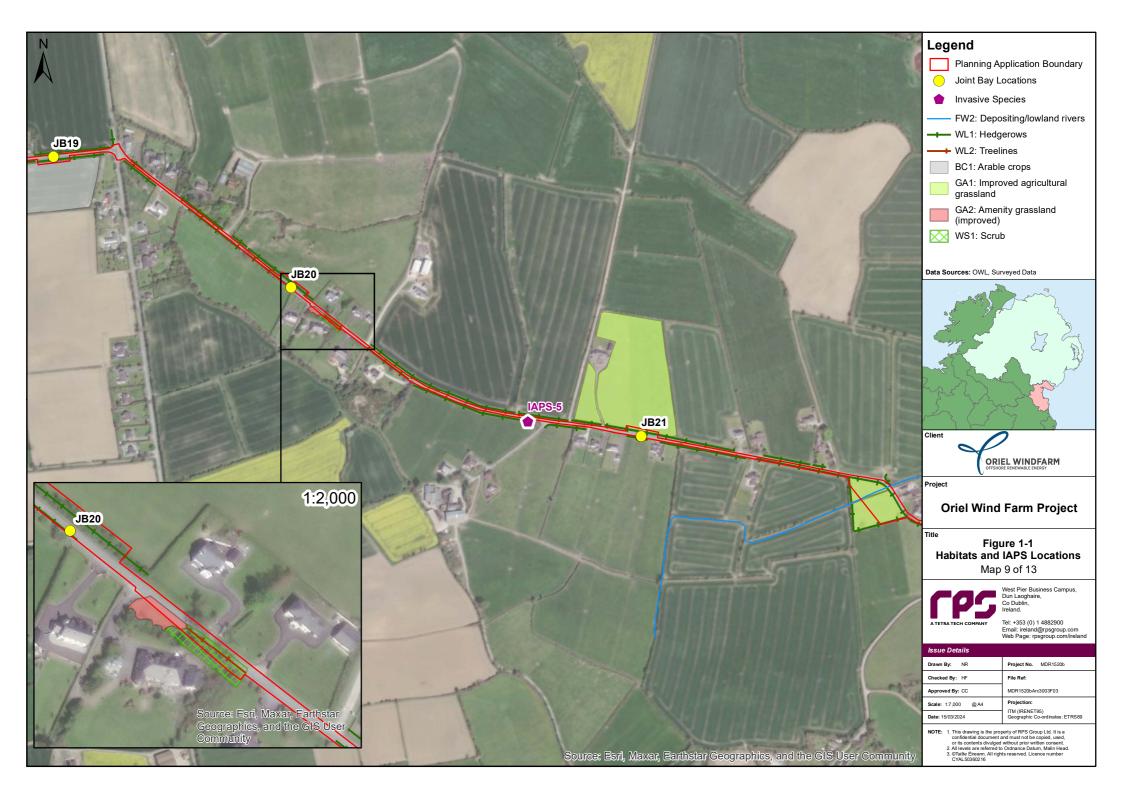








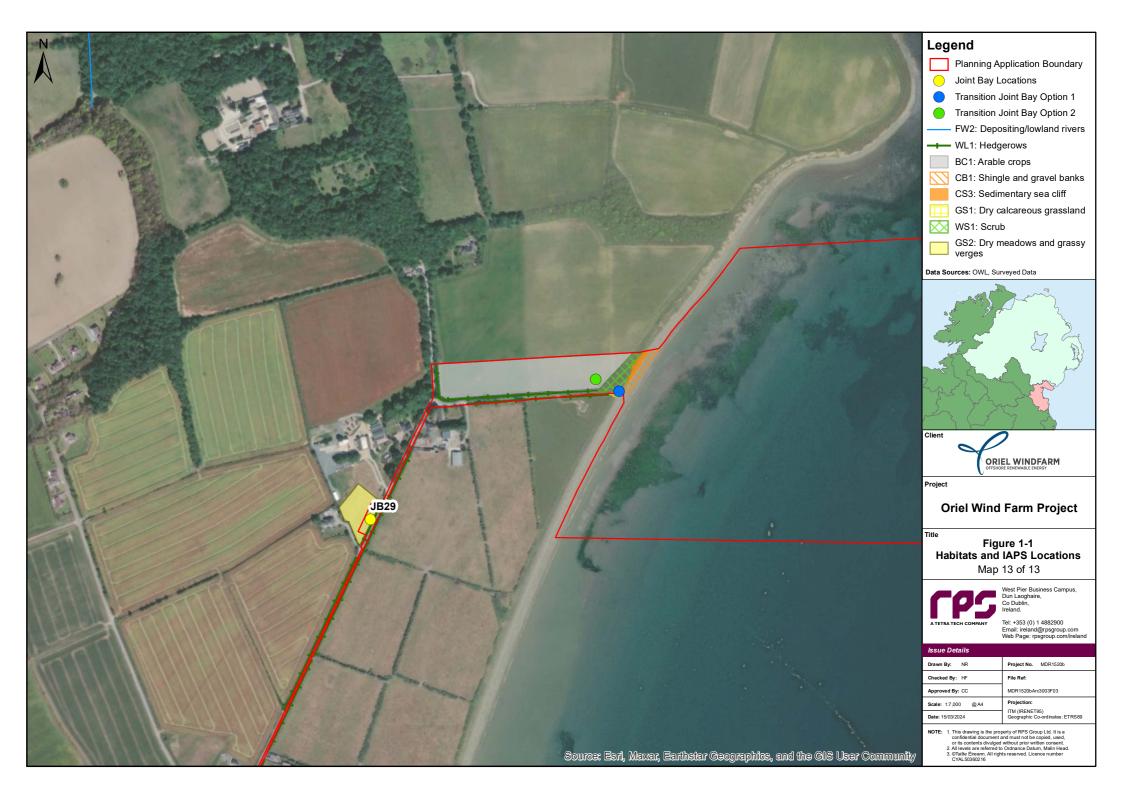












#### Bat

# Preliminary ground level roost assessment

The preliminary ground level roost assessments identified twenty six trees with features suitable for roosting bats (Figure 1-2). The visual assessment categorised the trees with potential to support bat roost features as ranging from low to moderate suitability (Table 1-9).

Table 1-9: Features suitable for Roosting Bats identified during the Preliminary Ground Level Roost Assessment.

Map Code	Tree Species	Grid Reference (ITM)	Feature Location and Description	Suitability		
BT2	Scots Pine	706423 – 791136	Broken branch at meeting point with main trunk, difficult to see without binoculars. Located on the second west facing subsidiary branch 10 m from the ground; First branch below feature one, southeast facing hollow knot hole. 10 m from the ground. Located close to the main trunk of tree; and South west facing hole (i.e. woodpecker type hole) located approximately 2 m from ground on main bark.	Moderate		
BT-3	Ash	706491 – 791157	<ul> <li>East facing branch overhanging river (5 m from ground) – multiple features. Multiple east facing knot holes. Terminal feature = Moderate, remaining = Low; and</li> <li>Second branch in from road – single east facing knot hole (8-10 m off ground).</li> </ul>			

Мар Grid Tree **Feature Location and Description** Suitability Code **Species** Reference (ITM) 706499 -BT-4 Ash Ash tree beside electricity line - north of BT3 - southwest facing Low 791173 broken branch feature.





BT-5 Ash 711604 – 789062

Mature ash tree – ivy covered.



Low (estimated due to ivy coverage)

Map Code	Tree Species	Grid Reference (ITM)	Feature Location and Description	Suitability
BT6	Hawthorn	711589 – 789066	• Mature Hawthorn – ivy covered.	Low (estimated due to ivy coverage)
BT7	Hawthorn	711586 – 789076	Mature Hawthorn – ivy covered; and     Cavity created by branch tearing out from stem.	Low
BT9	Ash	710889 – 789084	Semi-mature Ash – ivy covered.	Low

Map Tree Grid Feature Location and Description Suitability
Code Species Reference
(ITM)



BT10 Ash 710880 - 789083

Semi-mature Ash – ivy covered.





BT11 Ash 709814 - 789458

- Northwest facing feature on first west facing branch. Hollow knot hole, 8 m from ground, ivy; and
- North facing feature, 6 m from ground between second and third north facing branches.



Мар Tree Grid **Feature Location and Description** Suitability Code **Species** Reference (ITM) BT12 Ash 709824 -South side of tree, branch crack approximately 3 m from ground. Low 789451 BT13 709832 -Ash Mature Ash - ivy covered. Low 789444 (estimated due to ivy coverage) BT14 Sycamore 706627 -Low Sycamore – ivy covered. 791046 (estimated due to ivy coverage)

Мар Tree Grid **Feature Location and Description** Suitability Code **Species** Reference (ITM) 706617 -BT15 Maple Maple - five main stems, ivy covered. Low 791056 (estimated due to ivy coverage) BT16 Sycamore 706619 -Mature Sycamore, 10m northwest of BT17. Very old tree with Low 791065 branches that may easily break. Ivy covered.

706628 -

791057

Maple – ivy covered.

BT17

Maple

Map Tree Grid Feature Location and Description Suitability
Code Species Reference



BT-18 Beech 706625 - 791059

(ITM)

Area of ivy-covered mature beech trees opposite domestic property. Amongst Elm (few) and Conifers (x2).



Low (estimated due to ivy coverage)

BT-19 Silver fir 706534 – 791137

Heavily divided branching throughout and thick ivy cover.



BT-20 Scots 706559 – 791122

Bark peeling, horizontal crack/split – 10 m from ground, 7<sup>th</sup> northwest facing branch.

Low

Мар Grid Tree **Feature Location and Description** Suitability Code Species Reference (ITM)





BT-21 706544 -Scots pine 791122

Thick ivy and bark peeling.



Map Code	Tree Species	Grid Reference (ITM)	Feature Location and Description	Suitability
BT-22	Oak	706484 – 791141	• Surface cavity created by branch tearing out from stem.	Low
BT-23	Ash	698158 – 791271	• Thick ivy.	Low (estimated due to ivy coverage)
BT-24	Ash	702843 – 791132	<ul> <li>Cavity created by branch tearing out from stem. Southeast facing feature. Facing northwest, follow main trunk up to first east facing branch. This branch splits into two, and feature is located at base of the south facing branch;</li> <li>Bark peeling and ivy;</li> <li>Knot hole, facing north east, follow main trunck on west side up and on the underbelly approximately 4 m up, knot hole is faving upward; and</li> <li>Knot hole, standing facing east. Follow main trunk up to first west facing branch approximately 1 m from where this branch departs the main trunk, the open cavity is located facing upward.</li> </ul>	Moderate (will not be removed)

Map Tree Grid Feature Location and Description Suitability
Code Species Reference (ITM)







 Map Code
 Tree Species
 Grid Reference (ITM)
 Feature Location and Description
 Suitability

BT25 Ash 715012 - 790970

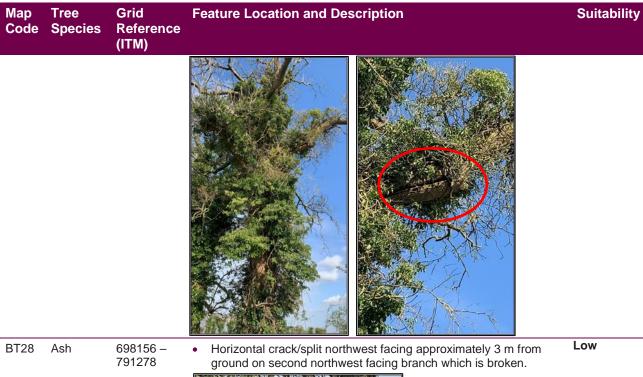
Thick ivy with partial detachment;

- Knot hole from branches previously pruned back to the collor. Knot hole is northeast and downward facing, approximately 2.5 m from the ground on most southern main trunk;
- Upward facing rot at base of first north facing branch. Standing facing west, follow main trunk up to approximately 2.5 m and branch is facing directly downward toward the ground.





Мар Tree Grid **Feature Location and Description** Suitability Code **Species** Reference (ITM) BT26 Low Ash 711548 -Thick ivy. 789055 BT27 Ash 697944 -Partially decaying treeing with thick ivy coverage; and Low 790979 Horizontal crack/split. Southeast facing feature approximately 12 m from ground, held together by ivy.





# **Commuting and foraging habitats**

All habitats within the footprint of the onshore substation site, onshore cable route, and the landfall location were assessed for bat commuting and foraging suitability. The onshore substation site and landfall location were classified as being of negligible or low suitability to commuting and foraging bats. The onshore cable route varied in suitability to commuting and foraging bats, containing sections of negligible, low, and moderate suitability. The only habitat offering moderate suitability to commuting and foraging bats was the proposed River Dee crossing at Drumcar.

A bat habitat suitability index (ranging from 0-100) identified the onshore components (substation, cable route, and landfall) are within a suitability index area ranging from 25.56-30.11 for all bat species combined (Table 1-10). The highest suitability index scores were recorded for soprano pipistrelle *Pipistrellus pygmaeus* (cable route and landfall), common pipistrelle *Pipistrellus pipistrellus* (cable route), and Leisler's bat *Nyctalus leisleri* (cable route).

Table 1-10: Suitability Index for Different Bat Species (as per Lundy et al., 2011).

Bat scientific name (common name)	Suitability index		
	Substation site	Cable route mean (min-max)	Landfall point
Pipistrellus pygmaeus (soprano pipistrelle)	34	39.65 (34-43)	43
Plecotus auratus (brown long-eared)	34	36.7 (34-38)	38
Pipistrellus pipistrellus (common pipistrelle)	36	40.05 (36-43)	41
Rhinolophus hipposideros (lesser horseshoe)	0	0	0
Nyctalus leisleri (Leisler's)	36	38.5 (35-41)	35
Myotis mystacinus (whiskered)	34	29.4 (17-34)	17
Myotis daubentoniid (Daubenton's)	20	26.05 (20-31)	23
Pipistrellus nathusii (Nathusius' pipistrelle)	3	6.5 (3-10)	9
Myotis nattereri (Natterer's)	33	33.95 (28-37)	28
All Bats	25.56	27.86 (25.56-30.11)	26

### **Bat activity**

The dates, timing, and weather conditions for the ten bat activity surveys are detailed in Table 1-11. A total of six species of bat (common pipistrelle, soprano pipistrelle, Nathusius' pipistrelle, Leisler's bat, Daubenton's bat *Myotis daubentoniid*, and an unidentified *Myotis* species) were recorded using the onshore substation site and onshore cable route for foraging and/or commuting during the ten combined transect bat activity surveys and the 22-night (2019) and 25-night (2023) static deployment.

Table 1-11: Dates, Timings and Weather Conditions for Bat Activity Surveys.

Date	Sunset/ Sunrise Time	Start Time of Survey	End Time of Survey	Cloud Cover (100%)	Precipitation	Wind (0-7)	Temperature (°C)
14/08/2019	20:58	20:58	00:20	100	No rain	2-4	14
28/08/2019	20:50	20:45	00:20	10	No rain	2	11
19/09/2019	04:06	04:30	07:00	0-30	No rain	0	11
08/10/2019	18:44	18:40	20:32	30	No rain	4	11
29/09/2020	19:07	18:51	20:53	60	No rain	4	13
29/07/2021	5:35	3:40	5:49	40	No rain	2	10
26/08/2021	20:29	20.29	23:00	40	No rain	2	19
23/05/2023	21.33	21.18	23.33	10	No rain	1	16
05/07/2023	21.57	21.42	23.57	75	No rain	0	14
06/09/2023	6.43	4.43	6.58	0	No rain	0	15

Data from the walked bat activity transects indicated that this area of the onshore substation site and onshore cable route was most significant as a foraging and commuting resource for soprano pipistrelle (61% of passes) and common pipistrelles (24.4% of passes), with relatively few records of Leisler's bat (6.6% of passes), undetermined soprano/common pipistrelle species (6.7% of passes), Daubenton's bat species (1% of passes) and undetermined Myotis species (0.3%) (Table 1-12). Tabulated bat activity information recorded on field sheets is detailed in Table 1-13.

Table 1-12: Walked bat activity transect results.

Scientific name (common name)	Number of passes	% of total passes
Pipistrellus pygmaeus (soprano pipistrelle)	418	61
Pipistrellus pipistrellus (common pipistrelle)	167	24.4
Pipistrellus pygmaeus/ pipistrellus (soprano/common pipistrelle)	46	6.7
Nyctalus leisleri (Leisler's bat)	45	6.6
Myotis daubentonii (Daubenton's bat)	7	1
Myotis spp.	2	0.3
TOTAL	685	100

Table 1-13: Tabulated bat activity information recorded on field sheets.

Date	Time	Frequency	Species+	Activity*	Мар Кеу	Description
14/08/2019	22:23	54	Ppyg	HNS, F	Marked	Returning
14/08/2019	22:24	30	Nlei	HNS	Marked	Returning
14/08/2019	22:25	57	Ppyg	HNS	Marked	Returning
14/08/2019	22:26	24	Nlei	HNS	Marked	Loud call
14/08/2019	22:29	54	Ppyg	HNS	Marked	-
14/08/2019	22:29	55	Ppyg	HNS	LP5	Returning
14/08/2019	22:32	27	Nlei	HNS	LP5	-
14/08/2019	23:07	57	Ppyg	HNS	LP4	-
14/08/2019	23:52	57	Ppyg	HNS	LP1	Returned x1
14/08/2019	23:53	45	Ppip	HNS	LP1	-
14/08/2019	23:53	45	Ppip	HNS	LP1	-
14/08/2019	23:53	20	Nlei	HNS	LP1	-
14/08/2019	23:55	60	Ppyg	HNS	LP1	-
14/08/2019	00:05	57	Ppyg	HNS	LP3	Returning
14/08/2019	00:05	43	Ppip	HNS	LP3	-
14/08/2019	00:05	45	Ppip	HNS	LP3	Returning
14/08/2019	00:05	51	Ppyg	HNS	LP3	Faint call
28/08/2019	22:20	-	-	SNH	Marked	-
28/08/2019	20:55	-	-	SNH	Marked	Flying along hedgerow
28/08/2019	20:57	-	-	SNH	Marked	-
28/08/2019	20:58	-	-	SNH	Marked	Flying along hedgerow
28/08/2019	20:59	-	-	SNH	Marked	-
28/08/2019	20:59	-	-	SNH	Marked	-
28/08/2019	20:59	-	-	SNH	Marked	-
19/09/2019	04:46	23	Nlei	HNS	Marked	-
19/09/2019	04:55	22	Nlei	HNS	LP7	-

Date	Time	Frequency	Species+	Activity*	Мар Кеу	Description
19/09/2019	5:43-5:48	-	Mdau	HNS	LP6	Anabat Swift – Multiple Mdau foraging on watercourse
08/10/2019	19:45	54	Ppyg	HNS	Marked	Returning
08/10/2019	20:22	54	Ppyg	HNS	Marked	-
29/09/2020	19:51	50	Ppyg	HNS	LP Dee crossing,	Returning
					east of Charleville bridge)	Heard briefly
29/09/2020	19:56	54	-	HNS	LP Dee crossing, Potential east of Charleville Daubento bridge)	
29/09/2020	19;57	54	-	HNS	LP Dee crossing, Potential east of Charleville Daubento bridge)	
29/09/2020	19.58	54	Ppyg	HNS	LP Dee crossing, Potential east of Charleville Daubentor bridge)	
29/09/2020	20:01	57	Ppyg	HNS	LP Dee crossing, Returning east of Charleville bridge)	
29/09/2020	20:26	57	-	HNS	LP Dee crossing, Returning Ardee	
29/07/2021	03:47	54	Ppip	HNS	Field 1: Substation site at Stickillen	
29/07/2021	03:49	54	Ppip	HNS		
29/07/2021	03:49	57		HNS		
29/07/2021	03:50	58		HNS		
29/07/2021	03:51	57		HNS		
29/07/2021	03:52 - 03:58				LP1	
29/07/2021	03:55	48		HNS		
29/07/2021	03:58	43				
29/07/2021	04:02	37				
29/07/2021	04:03 - 04:04	35				
29/07/2021	04:20 - 04:25				LP1	
29/07/2021	04:43				Drumcar Bridge, field east of River Dee	
29/07/2021	04:44	35				
29/07/2021	04:44	57		HNS		
29/07/2021	04:45	22		S&H		
29/07/2021	04:47 - 04:53			HNS	LP	
29/07/2021	04:55	33				
29/07/2021	04:56	57				
29/07/2021	05:25 - 05:30				LP2	

Date	Time	Frequency	Species+	Activity*	Мар Кеу	Description
29/07/2021	05:44 - 05:49			No Signal	LP (Duncanny Beach)	
26/08/2021	20:32	19		HNS		
26/08/2021	20:36 - 20:41				LP1	
26/08/2021	20:52				Driven	
26/08/2021	21:00 - 21:05				LP1	
26/08/2021	21:05					
26/08/2021	21:06 - 21:34				Driven	
26/08/2021	21:36 - 21:48				Walk	
26/08/2021	21:37	21			HNS	
26/08/2021	21:40 - 21:45				LP3	
26/08/2021	21:44	22				
26/08/2021	21:52 - 22:05				Driven	
26/08/2021	22:06 - 22:11				LP4	
26/08/2021	22:11 - 22:26				Driven	
26/08/2021	22:30 - 23:01				Walk	
26/08/2021	22:35	24				
26/08/2021	22:40 - 22:45				LP5	
26/08/2021	22:43	54				
26/08/2021	22:46	51				
26/08/2021	22:47	50				
26/08/2021	22:48	48				
26/08/2021	22:48	50				
26/08/2021	22:49	48				
26/08/2021	22:49	59				
26/08/2021	22:53	45				
26/08/2021	22:55	60				
23/05/2023	20:36	55.5	Ppyg	HNS		
23/05/2023	22:20	55.5	Ppyg	HNS		
23/05/2023	22:22	57	Ppyg	HNS		
23/05/2023	22:23	60	Ppyg	HNS		
23/05/2023	22:24	58.5	Ppyg	HNS		
23/05/2023	22:41	55.5	Ppyg	HNS		
23/05/2023	22:43	45	Ppip	HNS		
23/05/2023	22:43	55.5	Ppyg	HNS		
23/05/2023	23:01	52.5	Ppyg	HNS		
23/05/2023	23:03	51	Unknown	HNS	LP4	Potentially myotis. LP4 start 23:03.
23/05/2023	23:04	54	Ppip	HNS		

Date	Time	Frequency	Species+	Activity*	Мар Кеу	Description
23/05/2023	23:05	51	Ppyg/Ppip	Commuting		Flying NE across field, returning
23/05/2023	23:07	49.5	Ppyg/Ppip	HNS	LP4	Returning, several records between 50 and 57
23/05/2023	23:08	49	Ppyg/Ppip	HNS		
23/05/2023	23:08	43.5	Ppip	HNS		
23/05/2023	23:09	50-55	Ppyg	Swarming		3 to 4 swarming around eachother in north/south direction along dee
23/05/2023	23:34	51	Ppip	HNS		
23/05/2023	23:35	46.5	Ppyg/Ppip	HNS	LP6	
23/05/2023	23:36	25.5	Nlei	HNS		
23/05/2023	23:36	54	Ppyg	HNS		
23/05/2023	23:36	27	Nlei	HNS		
23/05/2023	23:37	55.5	Ppyg	HNS		
23/05/2023	23:37	25-27	Nlei	HNS		
23/05/2023	23:38	43.5	Ppip	HNS		
23/05/2023	23:39	25.5	Nlei	HNS		
23/05/2023	23:42	52.5	Ppyg	HNS		
23/05/2023	23:42	46.6	Ppip	HNS		
23/05/2023	23:44	31.5	Ppip	HNS		
23/05/2023	23:44	55.5	Ppyg	HNS		
05/07/2023	21:22	50	Ppyg	Foraging		
05/07/2023	22:26	50	Ppip	Foraging		
05/07/2023	22:38		Ppip	HNS		
05/07/2023	22:41					
05/07/2023	22:44	18	Nlei	Foraging		
05/07/2023	22:53	27	Nlei	HNS		
05/07/2023	22:54	45	Ppip	HNS		
05/07/2023	23:02	52	Ppyg			
05/07/2023	23:19	45	Ppyg	HNS		
06/09/2023**						

<sup>&</sup>lt;sup>+</sup> Ppyg = *Pipistrellus pygmaeus* (soprano pipistrelle); Nlei = *Nyctalus leisleri* (Leisler's bat); Ppip = *Pipistrellus pipistrellus* (common pipistrelle); Mdau = *Myotis daubentonii* (Daubenton's bat).

<sup>\*</sup> Activity: C=Commuting; F=Foraging; HNS=Heard not seen; SNH=Seen not heard; S&H = Seen and heard; E=Emergence; R=Reentry; S=Swarming.

<sup>\*\* 06/09/2023 =</sup> Data unavailable.

Data from the car-based bat activity transects indicated that this area of the onshore cable route was most significant as a foraging and commuting resource for soprano pipistrelle (40.8% of passes) and common pipistrelle (37.1% of passes) with relatively few records for foraging Leisler's bat (14% of passes), Nathusius' pipistrelle (3.7% of passes), undetermined soprano/common pipistrelle species (3.7% of passes), undetermined common/Nathusius' pipistrelle species (0.2% of passes), five occurrences of unidentified *Myotis* species (3.7% of passes) and one occurrence of Daubenton's bat (0.1% of passes) and (Table 1-14).

Table 1-14: Car-Based Bat Activity Transect Results 2019-2023.

Scientific name (Common Name)	Number of Passes	% of Total Passes
Pipistrellus pygmaeus (soprano pipistrelle)	400	40.8
Pipistrellus pipistrellus (common pipistrelle)	364	37.1
Pipistrellus nathusii (Nathusius' pipistrelle)	36	3.7
Pipistrellus pygmaeus/ pipistrellus (soprano/common pipistrelle)	36	3.7
Nyctalus leisleri (Leisler's bat)	137	14
Pipistrellus Pipistrellus/Nathusii (common/Nathusius' pipistrelle)	2	0.2
Myotis daubentonii (Daubenton's bat)	1	0.1
Myotis spp.	5	0.5
TOTAL	981	100

As outlined in the data limitation section of chapter 19: Onshore Biodiversity, bat activity data recorded from a section of Dunany point has been used as a proxy for bat activity along the onshore cable route.

Data from the static bat detector located within a hedgerow over the 22 night period from 28 August to 19 September 2019 indicated that this area of the onshore cable route was most significant as a foraging and commuting resource for soprano pipistrelle (77.3% of passes) with relatively few records for foraging common pipistrelle (8.3% of passes), undetermined soprano/common pipistrelle species (6.5% of passes), Leisler's bat (7.8% of passes) and one occurrence of an unidentified *Myotis* species (0.1% of passes) (Table 1-15).

Data from the static bat detector located along the River Dee at Drumcar over the 25 night period from 23 May to 5 September 2023 indicated that this area of the onshore cable route was most significant as a foraging and commuting resource for soprano pipistrelle (86.5% of passes) with relatively few records for foraging common pipistrelle (6.6% of passes), undetermined soprano/common pipistrelle species (1.7% of passes), undetermined common/Nathusius' pipistrelle species (0.03% of passes), Leisler's bat (2.4% of passes) and some occurrences of Daubenton's bat species (2.2% of passes) (Table 1-15).

Table 1-15: Static Bat Detector Results - 2019 and 2023.

Scientific name (common name)	Number of passes		% of tota	% of total passes	
	2019	2023	2019	2023	
Pipistrellus pygmaeus (Soprano pipistrelle)	1424	22289	77.3	86.5	
Pipistrellus pipistrellus (Common pipistrelle)	153	1716	8.3	6.7	
Pipistrellus pygmaeus/ pipistrellus (Soprano/Common pipistrelle)	120	456	6.5	1.8	
Pipistrellus Pipistrellus/Nathusii (Common/Nathusius' Pipistrelle)	-	7	-	0.03	
Pipistrellus Nathusii (Nathusius' Pipistrelle)	-	89	-	0.3	
Nyctalus leisleri (Leisler's bat)	144	624	7.8	2.4	
Myotis spp.	1	-	0.1	-	
Myotis Daubentonii (Daubenton's Bat)	-	577	-	2.2	

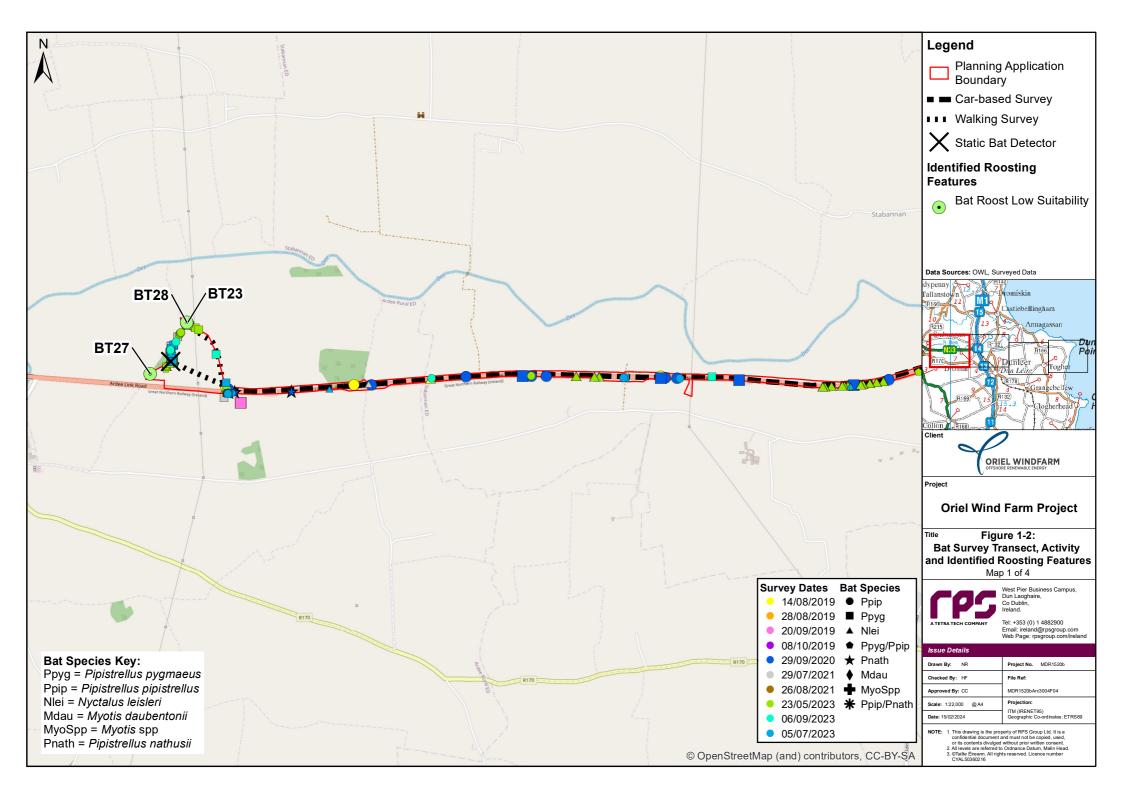
TOTAL	1842	25758	100	100

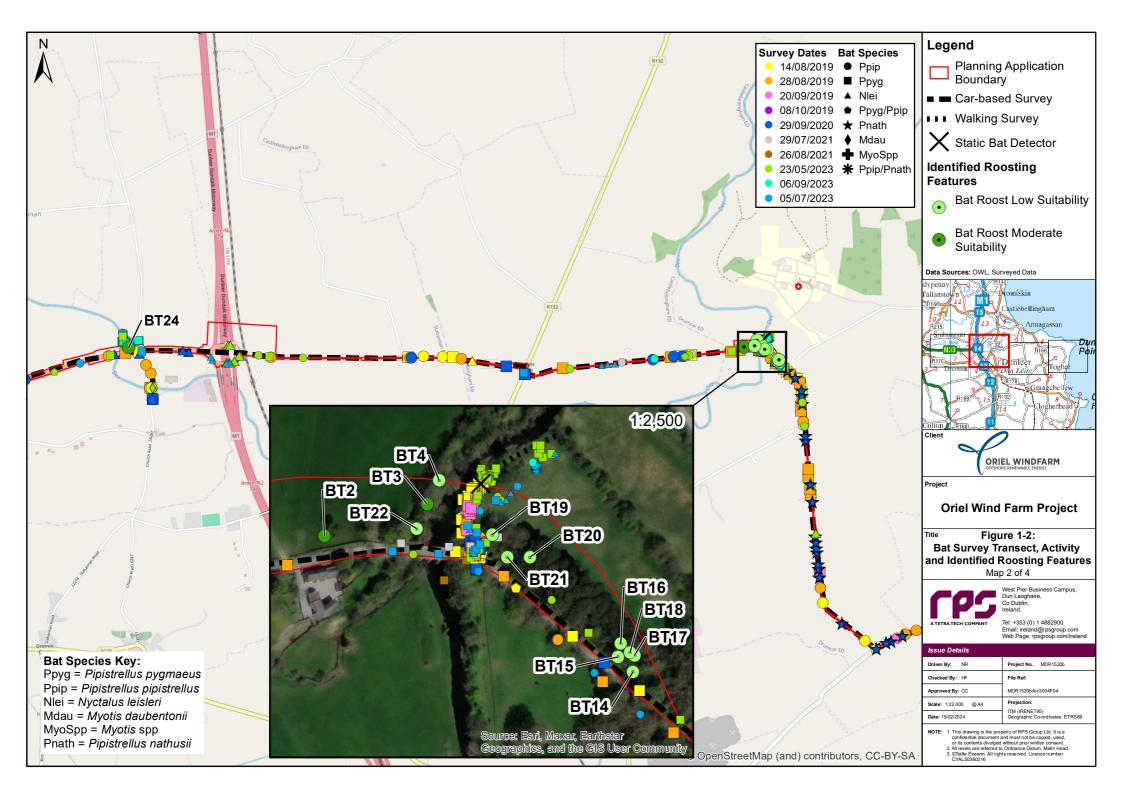
As a result of the NBW surveys (car-based and walked, combined), two activity 'hotspots' have been identified, as follows:

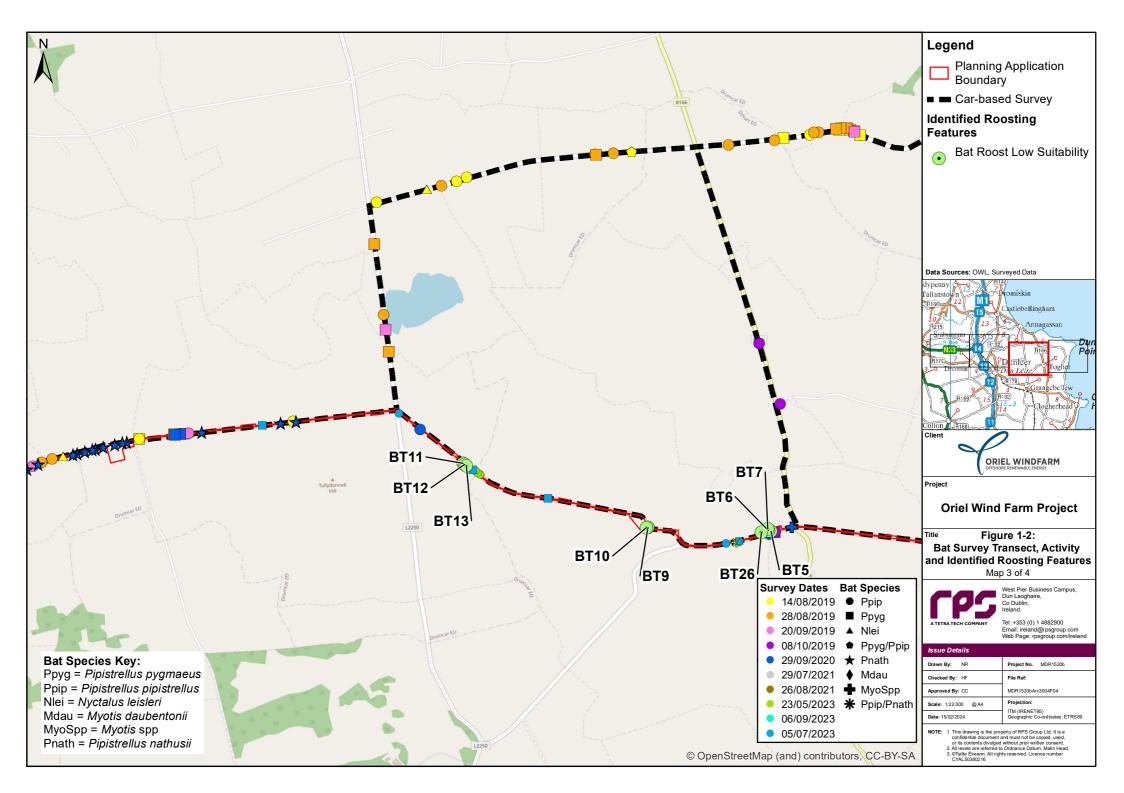
- River Dee (eastern crossing). Six bat species (common pipistrelle, soprano pipistrelle, Nathusius' pipistrelle, Leisler's bat, Daubenton's bat and an unidentified *Myotis* species) were recorded. Car-based and walked survey results were dominated by records of soprano pipistrelle. Daubenton's passes were recorded in August 2019, and the unidentified *Myotis* species was recorded in September 2020 during walked surveys only. Over 350 bat passes were recorded at this 'hotspot'; and
- **Dunany Point**. Four species (common pipistrelle, soprano pipistrelle, Leisler's bat, and unidentified *Myotis* species) were recorded. Car-based survey results were dominated by records of common pipistrelle. One unidentified *Myotis* spp. pass was recorded on the August car-based survey only. Over 360 bat passes were recorded at this 'hotspot'.

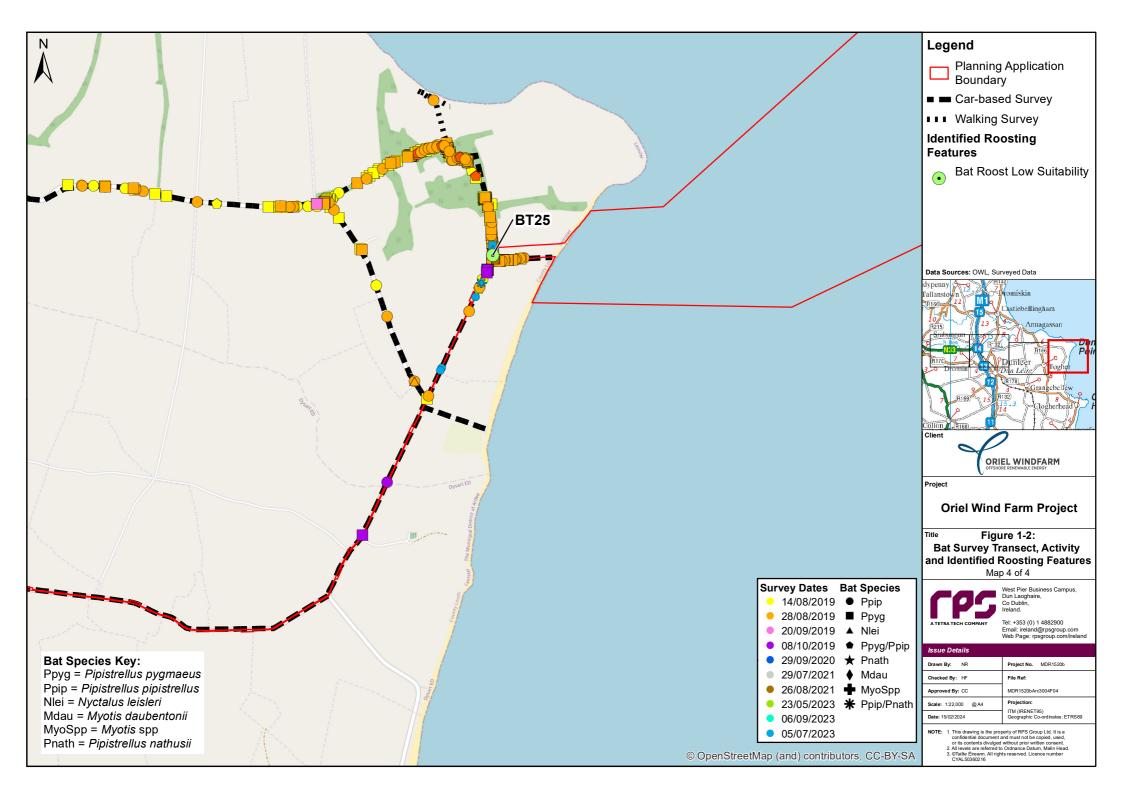
In addition to the 'hotspots' of bat activity the onshore substation site and the landfall location are described, as follows:

- **Onshore substation site**. Four bat species (common pipistrelle, soprano pipistrelle, Leisler's bat, and unidentified *Myotis* species) were recorded. The static bat detector recorded over 1400 passes of soprano pipistrelle, while walked transect surveys recorded individual passes of bat species including common pipistrelle, common/soprano pipistrelle, and Leisler's bat; and
- Landfall location. No bat activity was recorded at the landfall, while two bat species (common pipistrelle and soprano pipistrelle) were recorded in the vicinity of the landfall. The nearest bat recorded to the proposed landfall, a common pipistrelle, was located approximately 160 m inland within hedgerow habitat.









## **Badger**

Signs of badger activity were noted, including the presence of potential setts, foraging evidence, access runs, tracks and prints (Table 1-16 and Table 1-17). Incidental records of badger prints were also noted during bird surveys outside the planning application > 400m north of the landfall area. Note that figures illustrating the location of badger setts, and badger evidence have been supplied to the An Bord Pleanála (ABP) as a confidential appendix.

- Badgers using site for commuting/foraging as identified mammal trails and snuffle holes; and
- Fourteen entrances into eight potential badger setts.

Table 1-16: Potential badger setts entrances.

Map Code	Entrance Aspect	Tunnel Direction / Wider than Tall	Soil heap / Entrance Infilling (%)	Entrance Status	Habitat Type / Entrance Location	Notes
BS1	North	South then east / yes	Absent / >75% detritus	Disused	Woodland / southeast of stream	-
BS2 - 1	Southwest	Northeast / yes	Present & vegetated / >75% detritus	Partially used	Woodland / southeast of stream – 20 m northeast of BS1-1	- <del>-</del>
BS2 - 2	Southwest	Northeast / yes	Present & Vegetated / >75% detritus	Disused	Woodland / 3 m west of BS2-1	-
BS2 - 3	Southeast	Northwest / yes	Present and unvegetated / 25-50% detritus	Partially used	Woodland / 6 m north of BS2-1 overlooking stream	Partial tunnel cave in BS2 - 1
BS3 - 1	West - 2	Southeast / yes	Present and unvegetated / <25% detritus	Well used	Riparian zone / overlooking stream	
BS3 - 2	Northeast	Southwest / no	Absent / <25% detritus	Main – well used	Woodland / under tree	Bifurcated tunnel in BS3 - 2
BS3 - 3	West	East / yes	Present and vegated / 26-50% detritus	Disused	Riparian zone / overlooking stream	
BS3 - 4	West	East / yes	Present and vegated / 26- 50% detritus	Disused	Riparian zone / overlooking stream	-
BS3 - 5	West	Southeast / yes	Present and unvegetated / <25% detritus	Well used	Riparian zone / overlooking stream	Large ampunts of fresh spoil, a recent dig
BS4	West	South / yes	Present and unvegetated / 26-50% detritus	Partially used	Riparian zone / under ferns	-
BS5	East	South / southeast / yes	Present and unvegetated / <25% detritus	Well used	Woodland / Scrub	Freshly dug with well-used mammal trails
BS6	West	North / northeast / yes	Present and unvegetated /	Well used	Hedgerow / Under tree	Freshly dug with mammal trails evident

Map Code	Entrance Aspect	Tunnel Direction / Wider than Tall	Soil heap / Entrance Infilling (%)	Entrance Status	Habitat Type / Entrance Location	Notes
			<25% detritus			into neighbouring west field
BS7	Northeast	Southeast / yes	Present and unvegetated /	Disused	Grassy verge / hedegrow	-
BS8	Northwest	Southeast / yes	<25% detritus	Partially used	Hedgerow embankment	-

## Table 1-17: Description of Badger Evidence Recorded.

Map Code	Description
BE1	Snuffle holes
BE2	Snuffle holes

### Otter

A single sighting of otter was noted 100 m north of the N33 bridge crossing with the River Dee in February 2021. However, no other evidence of otter was found within the Project site or wider area along the River Dee. This widespread species is nevertheless presumed to forage and/or commute along the downstream river network.

## Other protected mammals

The Project site provides potentially suitable habitat for Irish hare, with two individuals observed during the field study. One sighting occurred at the onshore substation site along the southern hedgerow adjacent to the N33, and the second sighting occurred west of Charleville bridge within dry meadow (GS2) habitat. This species is presumed to occur within grassland, woodland, and hedgerow adjoining the footprint of the onshore substation site and onshore cable route. The species is considered common and widespread in Ireland and is currently assigned a conservation status of Least Concern (Marnell *et al.*, 2019).

There were no visual sightings or field signs of hedgehog observed during field surveys; however, these are nocturnal, and field signs are less frequently observed than for other mammals. Hedgehog are presumed to occur within grassland, woodland, and hedgerow adjoining the footprint of the onshore substation site and onshore cable route. Breeding is from May to October (Hayden and Harrington, 2001) and it is considered possible that there may be numerous territories within the onshore substation site and onshore cable route. There are no known national or county population estimates for the species in Ireland where they are common and assigned a conservation status of Least Concern (Marnell *et al.*, 2019).

Pygmy shrews were not recorded but their presence cannot be ruled out. The species nests in long grasses in dense vegetation (including damp conditions) or under rocks or logs, occurring wherever adequate insect food supplies exist. This species breeds from April to October. Given the minimum territory size of 200 m² (Hayden and Harrington, 2001) and the absence of extensive hedgerow and grassland adjacent to the footprint of the onshore substation site and onshore cable route, it is considered likely there may be some peripheral territories within the Project site. There are no known national or county population estimates for the species in Ireland as it is common and widespread and assigned a conservation status of Least Concern (Marnell *et al.*, 2019).

Although potential suitable habitat for red squirrel was identified within the Onshore Biodiversity Study Area, no individuals were recorded, and no desk study records were found for the preceding 40 years. Suitable habitat for pine marten, Irish stoat, and deer species (e.g. red deer) was also noted; however, no evidence of their presence was noted during the field study. These species are assumed to be present in the wider landscape and have been assigned a conservation status of Least Concern (Marnell *et al.*, 2019).

Other non-protected species for which there was evidence on site included rabbit *Oryctolagus cuniculus* and fox *Vulpes vulpes*. These species are not afforded wildlife protection and are not assessed further.

#### **Birds**

#### **Onshore birds**

### 2018/2019 onshore bird survey

The onshore birds survey returned a total of 53 bird species records (see appendix 19-2: Intertidal Bird Survey and Onshore Bird Survey Reports), 22 of which are Red (8 species) and Amber (14 species) listed birds of conservation concern. The survey results for the 22 Red and Amber listed birds of conservation concern are summarised in Table 1-18 and Table 1-19.

Of the 22 bird species listed, one was an Annex I (Birds Directive) species, namely whooper swan, and seven were Special Conservation Interest (SCI), including curlew, lapwing, mallard, cormorant, whooper swan, black headed-gull, and herring gull.

### 2023 breeding bird survey

The onshore breeding bird surveys conducted in 2023 returned a total of 48 bird species records, 16 of which are Red (3 species) and Amber (13 species) listed birds of conservation concern (Gilbert *et al.*,2021). The survey results for the 16 Red and Amber listed birds of conservation concern are provided in annex A, summarised in Table 1-20 and shown in Figure 1-3. Nine species were observed showing behaviour which led them to being recorded as "possible", "probable" or "confirmed" breeding.

Of the 48 bird species recorded, one was an Annex I (Birds Directive) species, namely kingfisher, which was recorded flying up and down the River Dee at Drumcar Bridge. It was noted that there may have been a nest in the area given the frequency with which the bird was flying back and forth during their survey. However, surveys along the River Dee did not find any suitable nesting habitat for kingfisher. Kingfisher territory is known to range from 2 km to 3 km of river (Musseau *et al.*, 2021), but can reach 5 km depending on availability of food sources<sup>3</sup> meaning it is possible for the observed bird to be nesting outside the planning application boundary or ZoI of the Project but foraging within it.

Four of the species listed were species of Special Conservation Interest (SCI), including black-headed gull, cormorant, herring gull and the kingfisher mentioned above.

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<sup>&</sup>lt;sup>3</sup> Available at: <a href="https://www.rspb.org.uk/birds-and-wildlife/wildlife-guides/bird-a-z/kingfisher/breeding-feeding-territory/">https://www.rspb.org.uk/birds-and-wildlife/wildlife-guides/bird-a-z/kingfisher/breeding-feeding-territory/</a> Accessed August 2023.

Table 1-18: Onshore bird data - 2018.

Species	CR1	CR2	CR3	CR4	CR5	CR6	CR7	CR8	CR9	CR10	CR11	CR12	CR13	CR14	CR15	CR16	CR17	CR18	CR19	CR20	CR21	CR22	CR23	CR24	CR25	CR26	CR27	CR28	CR29	CR30	SCI/ Annex I	Red List Status
Curlew Numenius arquata			11																									11			SCI	Red
Woodcock Scolopax rusticola								11																								Red
Meadow Pipit Anthus pratensis											11											11							11			Red
Whooper Swan Cygnus cygnus												10- 12																			Annexe I & SCI	Amber
Black Headed- gull Chroicocephalu s ridibundus	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	SCI	Amber
Herring Gull Larus argentatus	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	SCI	Amber
Starling Alauda arvensis					11				12							12											11					Amber
House Sparrow Passer domesticus	10 - 12			10				11 - 12		12				10	11		10			12		11										Amber
Linnet <i>Linaria</i> cannabina		11	10													11											10					Amber

Note: CR= Cable Route; No's 1-12 refer to the 12 months of the year.

Table 1-19: Onshore bird data - 2019.

Species	CR1	CR2	CR3	CR4	CR5	CR6	CR7	CR8	CR9	CR10	CR11	CR12	CR13	CR14	CR15	CR16	CR17	CR18	CR19	CR20	CR21	CR22	CR23	CR24	CR25	CR26	CR27	CR28	CR29	CR30	SCI/ Ann. I	Red List Status
Kestrel Falco tinnunculus						3	1							9						5												Red
Lapwing Vanellus vanellus						1							1	12	11					12	11										SCI	Red
Curlew Numenius arquata	2			10																								11			SCI	Red
Woodcock Scolopax rusticola								11																								Red
Snipe Gallinago gallinago																								1								Red
Swift Apus apus	5- 9	5- 9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5- 9	5-9	5-9	5-9	5- 9	5-9		Red											
Meadow Pipit Anthus pratensis		4, 8	2		4		8	2	4				8	2, 4						4, 10	8		2		8	4	10			2, 8		Red
Redwing Turdus iliacus									1		2													1				2				Red
Mute Swan Cygnus olor												3																				Amber
Whooper Swan Cygnus cygnus												1- 3, 11 - 12																			Annex I & SCI	Amber
Mallard Anas platyrhynchos										3									11												SCI	Amber
Cormorant Phalacrocorax carbo	*																														SCI	Amber

Species																															SCI/	Red
Species	CR1	CR2	CR3	CR4	CR5	CR6	CR7	CR8	CR9	CR10	CR11	<b>CR12</b>	CR13	CR14	CR15	CR16	CR17	CR18	CR19	CR20	CR21	CR22	CR23	CR24	<b>CR25</b>	CR26	CR27	CR28	<b>CR29</b>	CR30	Ann. I	List Status
Black Headed- gull Chroicocephal us ridibundus	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	SCI	Amber
Herring Gull Larus argentatus	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	SCI	Amber
Skylark Alauda arvensis	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3- 9	3-9	3-9	3-9	3-9	3-9	3-9	3-9	3-9	3-9	3-9	3-9	3- 9	3-9	3-9	3-9	3- 9	3-9		Amber
Swallow Hirundo rustica	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5- 9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5-9	5- 9	5-9	5-9	5-9	5- 9	5-9		Amber
House Martin Delichon urbicum	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4- 9	4-9	4-9	4-9	4-9	4-9	4-9	4-9	4-9	4-9	4-9	4-9	4- 9	4-9	4-9	4-9	4- 9	4-9		Amber
Goldcrest Regulus regulus																			4-5													Amber
Spotted Flycatcher Motacilla striata																			5													Amber
Starling Sturnus vulgaris		3						10		12		1	3	1						3	10				1					10		Amber
House Sparrow Passer domesticus	2, 4, 5, 10,		4, 5, 10	10	2		10	4						5, 10			2, 4, 12			5												Amber
Linnet Linaria cannabina	11	4	7			11	44 74 8		4, 7	11					4						6	7, 11	11		6				2			Amber

Footnote: \* symbol is designated to species commonly recorded within the study area

Table 1-20: Onshore breeding bird survey results - 2023.

BTO Code	Common name	Scientific name	BOCCI	Annex I Species	SCI species	Breeding status <sup>4</sup>	Location of breeding evidence
B.	Blackbird	Turdus merula	Green	-	-	-	-
BC	Blackcap	Sylvia atricapilla	Green	-	-	-	-
BF	Bullfinch	Pyrrhula pyrrhula	Green	-	-	-	-
BH	Black-headed gull	Chroicocephalus ridibundus	Amber	-	Yes	-	-
BT	Blue tit	Cyanistes caeruleus	Green	-	-	-	-
BZ	Buzzard	Buteo buteo	Green	-	-	-	-
CA	Cormorant	Phalacrocorax carbo	Amber	-	Yes	-	-
CC	Chiffchaff	Phylloscopus collybita	Green	-	-	-	-
CD	Collard dove	Streptopelia decaocto	Green	-	-	-	-
CH	Chaffinch	Fringilla coelebs	Green	-	-	-	-
СТ	Coal tit	Periparus ater	Green	-	-	-	-
D.	Dunnock	Prunella modularis	Green	-	-	-	-
GC	Goldcrest	Regulus regulus	Amber	-	-	Probable	Onshore substation site HDD location at M1 Railway Drumcar woodland HDD crossing
						Possible	Onshore cable route
GO	Goldfinch	Carduelis carduelis	Green	-	-		
GR	Greenfinch	Chloris chloris	Amber	-	-	Possible	HDD location at M1 Railway Onshore cable route
GT	Great tit	Parus major	Green	-	-	-	-
HC	Hooded crow	Corvus corone	Green	-	-	-	-
HG	Herring gull	Larus argentatus	Amber	-	Yes	-	-
НМ	House martin	Delichon urbicum	Amber	-	-	-	-
HS	House sparrow	Passer domesticus	Amber	-	-	Confirmed	Joint bay 28
						Possible	Onshore cable route

<sup>&</sup>lt;sup>4</sup> Breeding status is provided for Red and Amber listed species only.

BTO Code	Common name	Scientific name	ВОССІ	Annex I Species	SCI species	Breeding status <sup>4</sup>	Location of breeding evidence
JD	Jackdaw	Corvus monedula	Green	-	-	-	-
KF	Kingfisher	Alcedo atthis	Amber	Yes	Yes	Probable*	Drumcar woodland HDD crossing
LI	Linnet	Linaria cannabina	Amber	-	-	Probable	Drumcar woodland HDD crossing Landfall location
						Possible	Onshore cable route
LT	Long-tailed tit	Aegithalos caudatus	Green	-	-	-	-
M.	Mistle thrush	Turdus viscivorus	Green	-	-	-	-
MG	Magpie	Pica pica	Green	-	-	-	-
MH	Moorhen	Gallinula chloropus	Green	-	-	-	-
MP	Meadow pipit	Pipit Anthus pratensis	Red	-	-	-	-
PH	Pheasant	Phasianus colchicus	NA	-	-	-	-
PW	Pied wagtail	Motacilla alba yarrelli	Green	-	-	-	-
R.	Robin	Erithacus rubecula	Green	-	-	-	-
RB	Reed bunting	Emberiza schoeniclus	Green	-	-	-	-
RO	Rook	Corvus frugilegus	Green	-	-	-	-
S.	Skylark	Alauda arvensis	Amber	-	-	-	-
SC	Stonechat	Saxicola torquatus	Green	-	-	-	-
SD	Stock dove	Columba oenas	Red	-	-	Possible	Onshore cable route
SG	Starling	Sturnus vulgaris	Amber	-	-	Possible	Onshore cable route Landfall location
SH	Sparrowhawk	Accipiter nisus	Green	-	-	-	-
SL	Swallow	Hirundo rustica	Amber	-	-	Possible	HDD location at M1 Railway Drumcar woodland HDD crossing Onshore cable route Landfall location
ST	Song thrush	Turdus philomelos	Green	-	-	-	-
SW	Sedge warbler	Acrocephalus schoenobaenus	Green	-	-	-	-
TC	Treecreeper	Certhia familiaris	Green	-	-	-	-
WH	Whitethroat	Sylvia communis	Green	-	-	-	-
WM	Whimbrel	Numenius phaeopus	Green	-	-	-	-

BTO Code	Common name	Scientific name	BOCCI	Annex I Species	SCI species	Breeding status <sup>4</sup>	Location of breeding evidence
WP	Woodpigeon	Columba palumbus	Green	-	-	-	-
WR	Wren	Troglodytes troglodytes	Green	-	-	-	-
WW	Willow warbler	Phylloscopus trochilus	Amber	-	-	Probable	HDD location at M1 Railway Onshore cable route
						Possible	Onshore substation site Onshore cable route
Υ.	Yellowhammer	Emberiza citrinella	Red	-	-	Probable	Onshore substation site HDD location at M1 Railway Onshore cable route
						Possible	Onshore cable route

<sup>\* =</sup> In relation to Kingfisher, evidence of breeding based on behaviour was probable, however there was no confirmed breeding within the Zol.

### Intertidal birds

### 2017 - 2019 intertidal bird surveys

The peak and mean bird abundances for 2018 and 2019 at the landfall location are summarised in appendix 19-2: Intertidal Bird Survey and Onshore Bird Survey Reports. The intertidal survey at Dunany South yielded a total of 23 species compromising 718 individuals. The most commonly occurring species were oystercatcher, herring gull and cormorant while the oystercatcher and herring gull were recorded in highest abundance in the months of August to November. The Dunany South landfall was dominated by gulls as opposed to waders unlike the Dunany North landfall however, oystercatchers were the most abundant wading bird species.

The intertidal survey at Dunany North yielded a total of 33 species compromising 4,621 individuals. The most commonly occurring species were oystercatcher, herring gull, great black-backed gull; while the oystercatcher, herring gull and brent goose were recorded in highest abundance in the months of December to March. Species abundances were dominated by the influx of over-wintering wading birds, followed by gulls.

During an unrelated field survey in December 2019, 14 brent goose individuals were recorded feeding at low tide approximately 200 m northeast of the landfall at the edge of a rocky outcrop.

## 2023 intertidal bird surveys

The monthly intertidal bird surveys conducted from April to August 2023 focused on Dunany South and surveyed all birds within a 300 m buffer of the transition joint bay. These surveys returned a total of 37 bird species recorded, compromising 607 individuals. Of these observations, 22 were Red (5 species) and Amber (22 species) listed birds of conservation concern (Gilbert, Standbury and Lewis, 2021). The survey results for the 22 Red and Amber listed birds of conservation concern are provided in Annex B, summarised in Table 1-21, and shown in Figure 1-4.

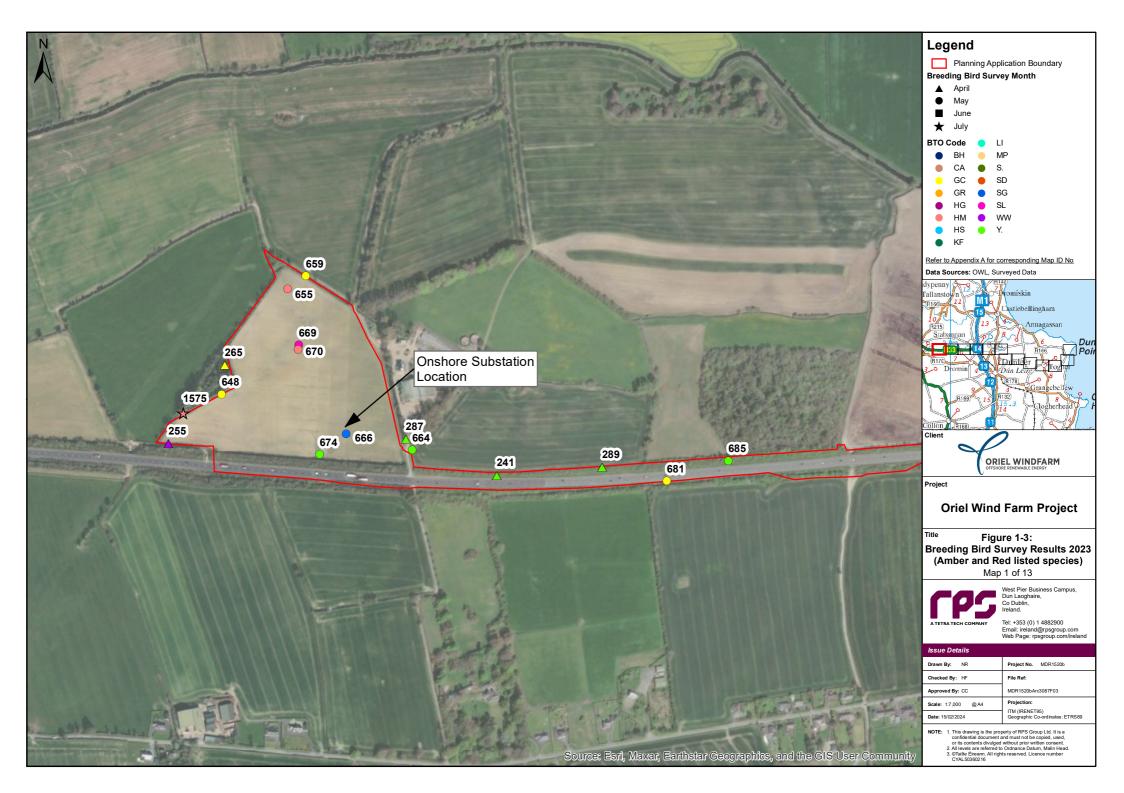
Five of the birds observed onsite were Annex I (Birds Directive) species and 18 birds observed onsite were SCI species. These results are summarised in Table 1-21 along with their peak counts compared to national and international populations where applicable. The most commonly occurring species were oystercatcher and herring gull which were recorded onsite every month.

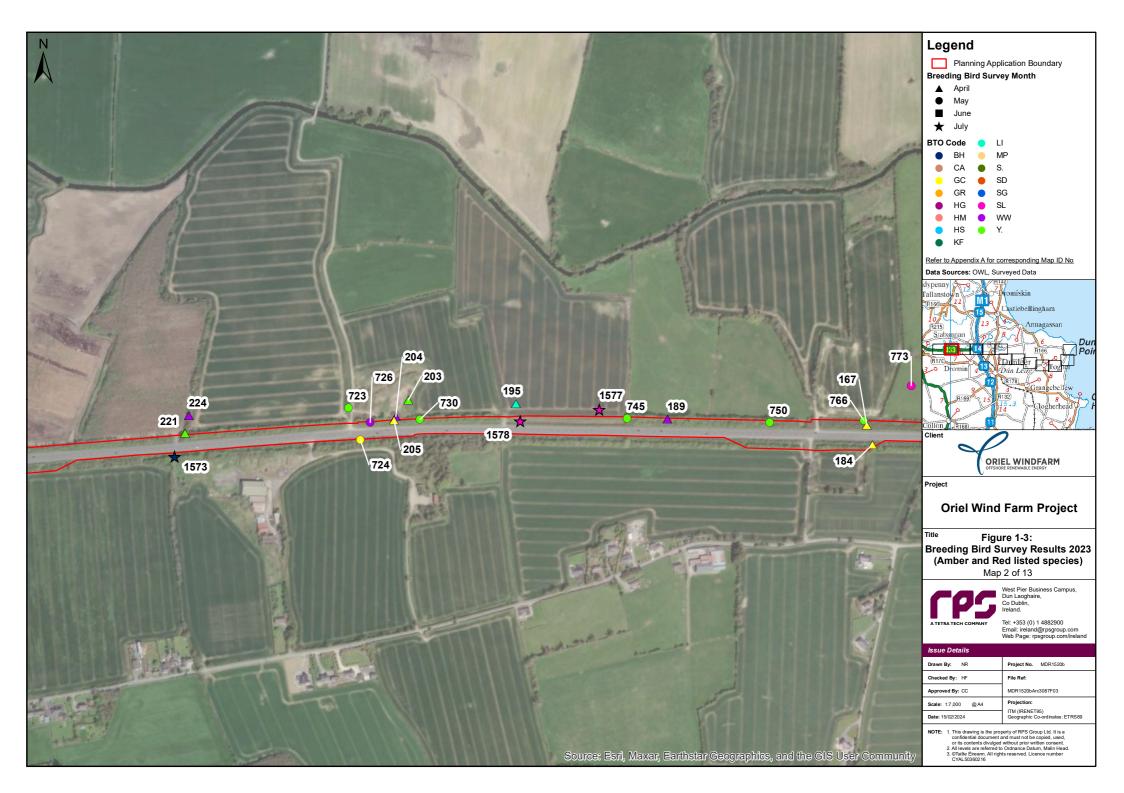
While none of the peak counts recorded within the 300 m buffer of the transition joint bay exceeded any national and international population thresholds, it should be noted that in July 2023, six red-breasted mergansers were recorded within the survey buffer, with a further 43 approximately 80 m north of the survey buffer. These birds were drifting down towards the survey buffer zone but appeared to be actively avoiding coming any closer to the surveyor onsite. As such, it is believed that they would have been present within the survey buffer had the surveyor not acted as a source of disturbance.

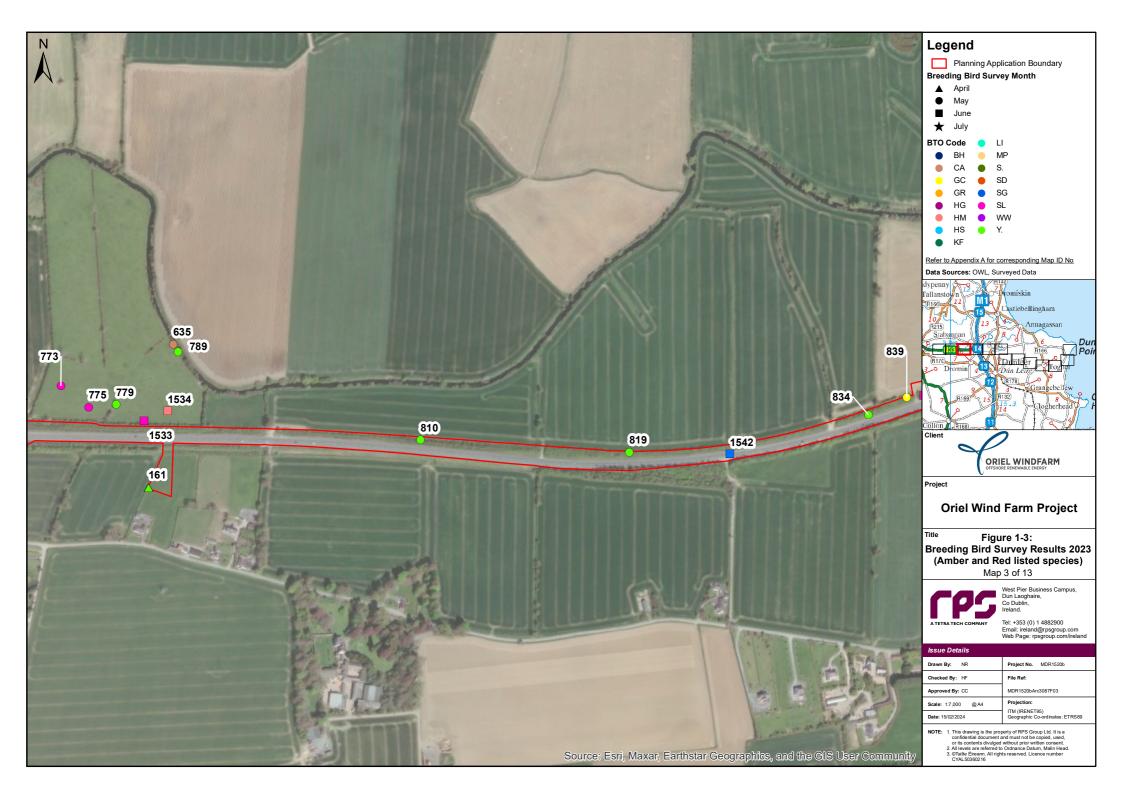
Two species were recorded just outside the survey buffer which were not recorded within the survey buffer during the April – August 2023 surveys, namely; sand martin *Riparia riparia* which were noted as possibly nesting in the sand cliffs approx. 400 m north of the transition joint bay and grey plover *Pluvialis squatarola*. Grey plover were recorded at Dunany point, approx. 800 m north of the transition joint bay, within a flock of about 300 roosting birds roosting on rocks at high tide. The flock included oystercatcher, curlew, whimbrel *Numenius phaeopus*, great black-backed gull, Sandwich tern, roseate tern and common tern.

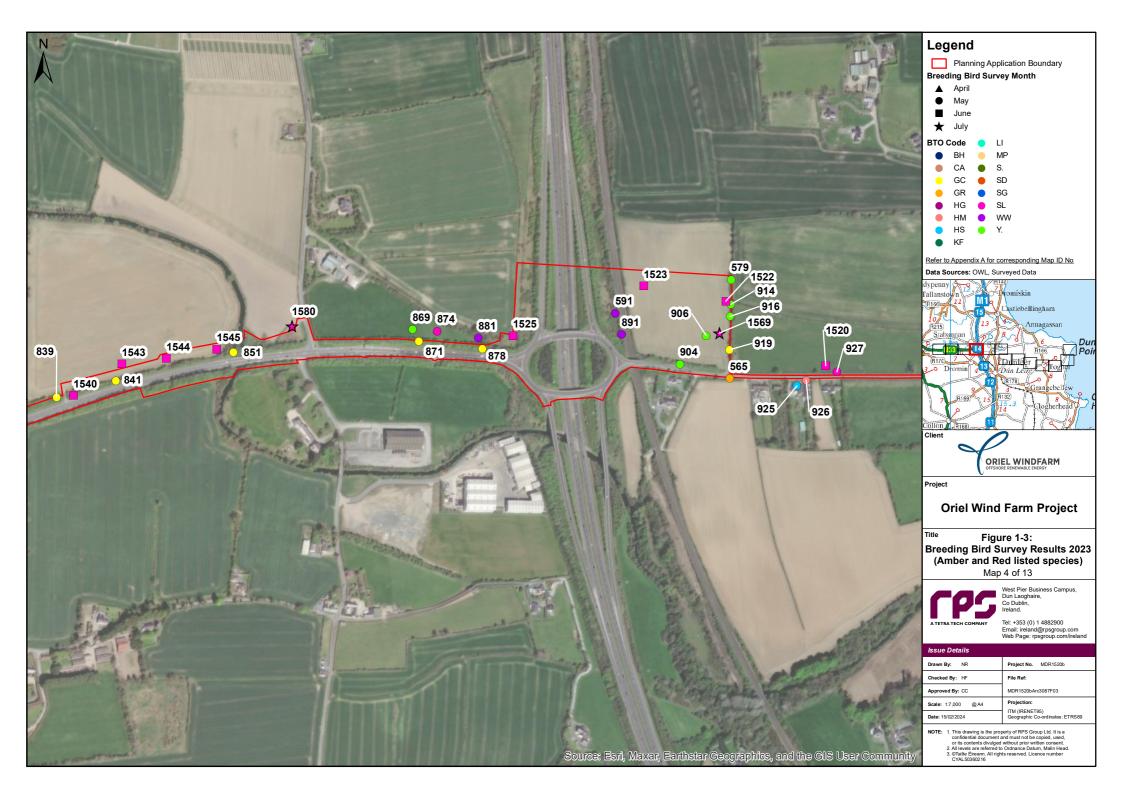
Table 1-21: Intertidal bird survey results - April to August 2023.

Species			Mont	hly pe	ak cour	nt		Populations		Conserva	ation statu	IS
BTO Code	Common name	Scientific name	April	May	June	July	August	1% National Population	1% International Population	BOCCI	Annex species	SCI species
H.	Grey heron	Ardea cinerea	2	0	0	0	0	25	5,000	Green	No	Yes
RP	Ringed plover	Charadrius hiaticula	5	1	2	4	0	120	540	Amber	No	Yes
GR	Greenfinch	Chloris chloris	1	0	0	0	0	N/A	N/A	Amber	No	No
RH	Red-throated diver	Gavia stellata	2	0	0	0	0	20	3,000	Amber	No	Yes
OC	Oystercatcher	Haematopus ostralegus	20	107	3	121	45	610	8,200	Red	No	Yes
SL	Swallow	Hirundo rustica	1	4	0	3	2	N/A	N/A	Amber	No	No
HG	Herring gull	Larus argentatus	4	14	37	3	17	103	15,900	Amber	No	Yes
LI	Linnet	Linaria cannabina	4	5	2	2	0	N/A	N/A	Amber	No	No
RM	Red-breasted merganser	Mergus serrator	16	0	0	6	0	25	860	Amber	No	Yes
GX	Northern gannet	Morus bassana	3	1	0	0	0	4,900	15,000	Amber	No	Yes
CA	Cormorant	Phalacrocorax carbo	3	3	3	0	0	110	1,200	Amber	No	Yes
TE	Sandwich tern	Thalasseus sandvicensis	5	0	0	5	0	25	4,900	Amber	Annex I	Yes
RK	Redshank	Tringa totanus	2	0	0	0	0	240	760	Red	No	Yes
S.	Skylark	Alauda arvensis	0	1	0	0	0	N/A	N/A	Amber	No	No
MP	Meadow pipit	Anthus pratensis	0	1	2	0	0	N/A	N/A	Red	No	No
ET	Little egret	Egretta garzetta	0	1	0	0	1	20	1,100	Green	Annex I	No
CM	Common gull	Larus canus	0	2	0	0	2	20	25,000	Amber	No	Yes
SU	Shelduck	Tadorna tadorna	0	1	0	0	0	100	2,500	Amber	No	Yes
CU	Curlew	Numenius arquata	0	0	4	1	4	350	7,600	Red	No	Yes
AF	Little tern	Sterna albifrons	0	0	1	0	0	4	1,900	Amber	Annex I	Yes
CN	Common tern	Sterna hirundo	0	0	1	4	0	50	16,000	Amber	Annex I	Yes
ВН	Black-headed gull	Chroicocephalus ridibundus	0	0	0	1	8	78	48,000	Amber	No	Yes
RS	Roseate tern	Sterna dougallii	0	0	0	1	0	18	2,000	Amber	Annex I	Yes
KI	Kittiwake	Rissa tridactyla	0	0	0	0	1	247	146,000	Red	No	Yes





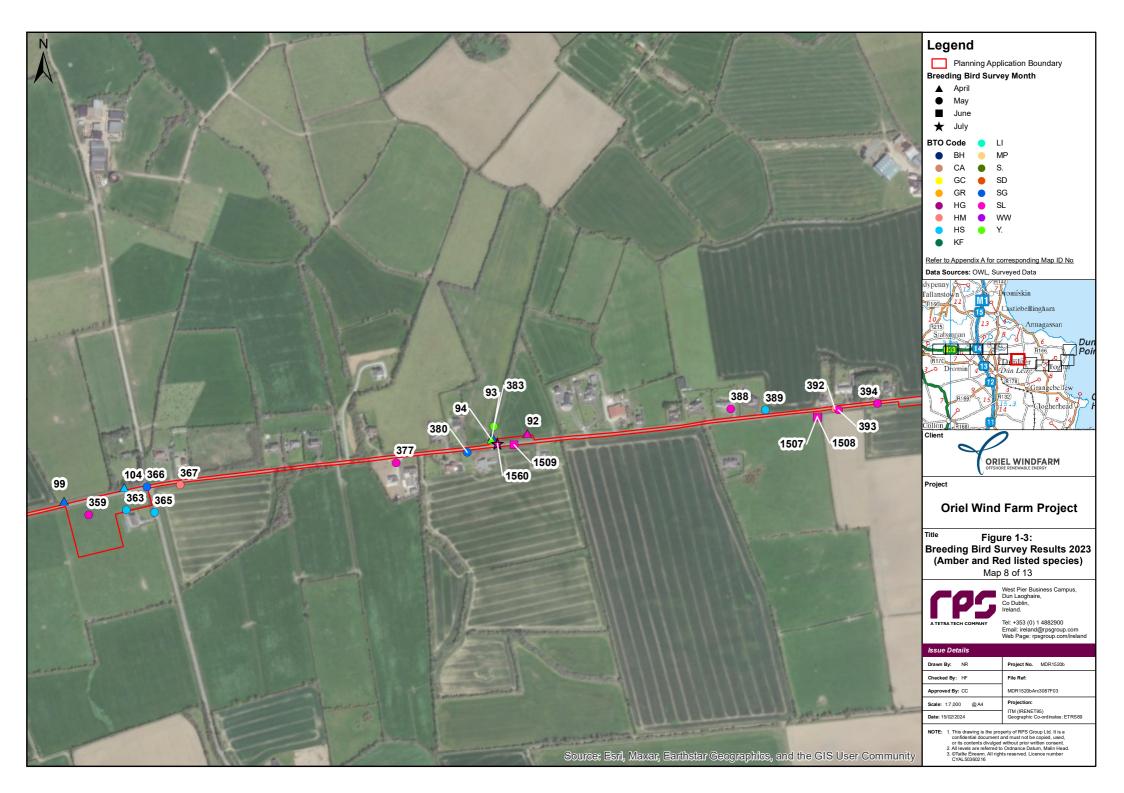


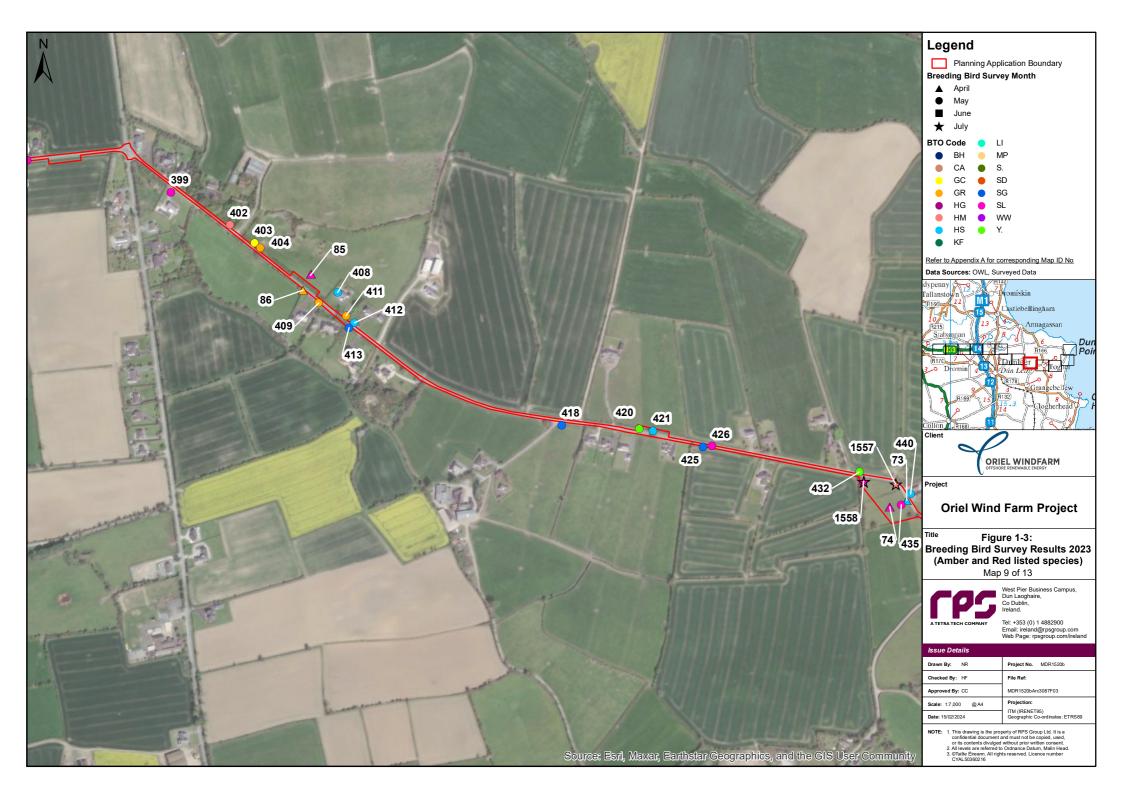




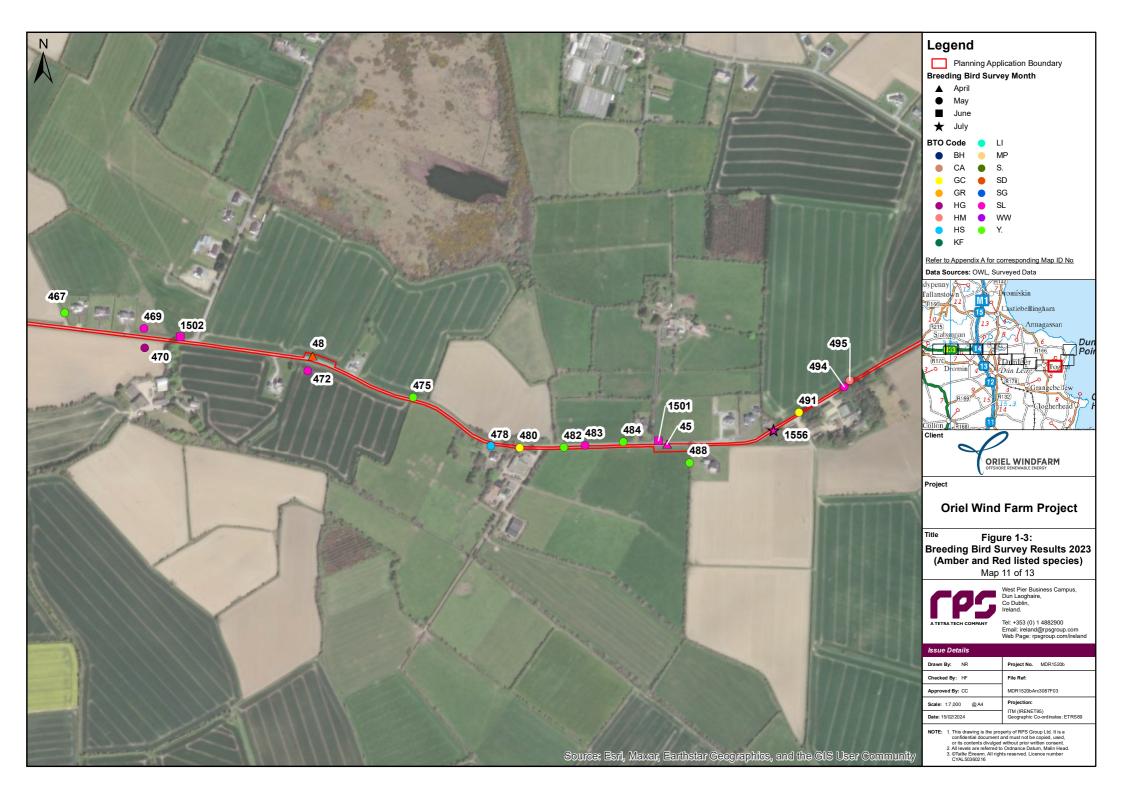




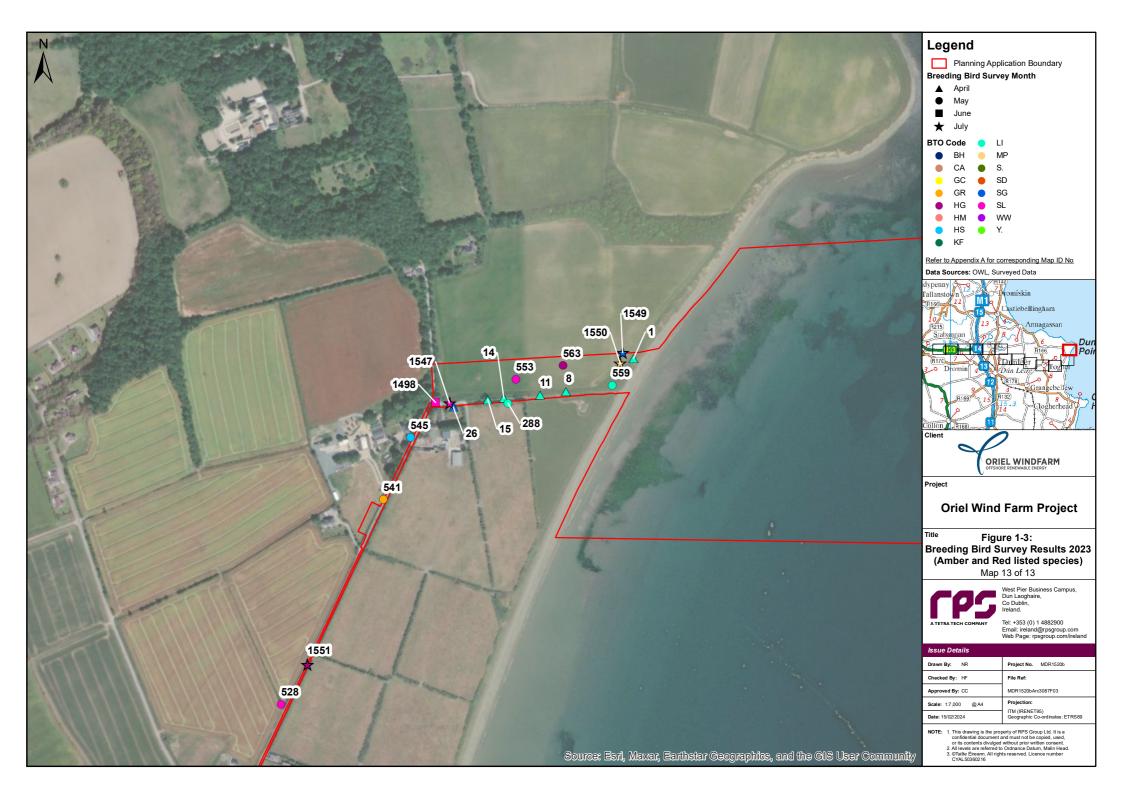


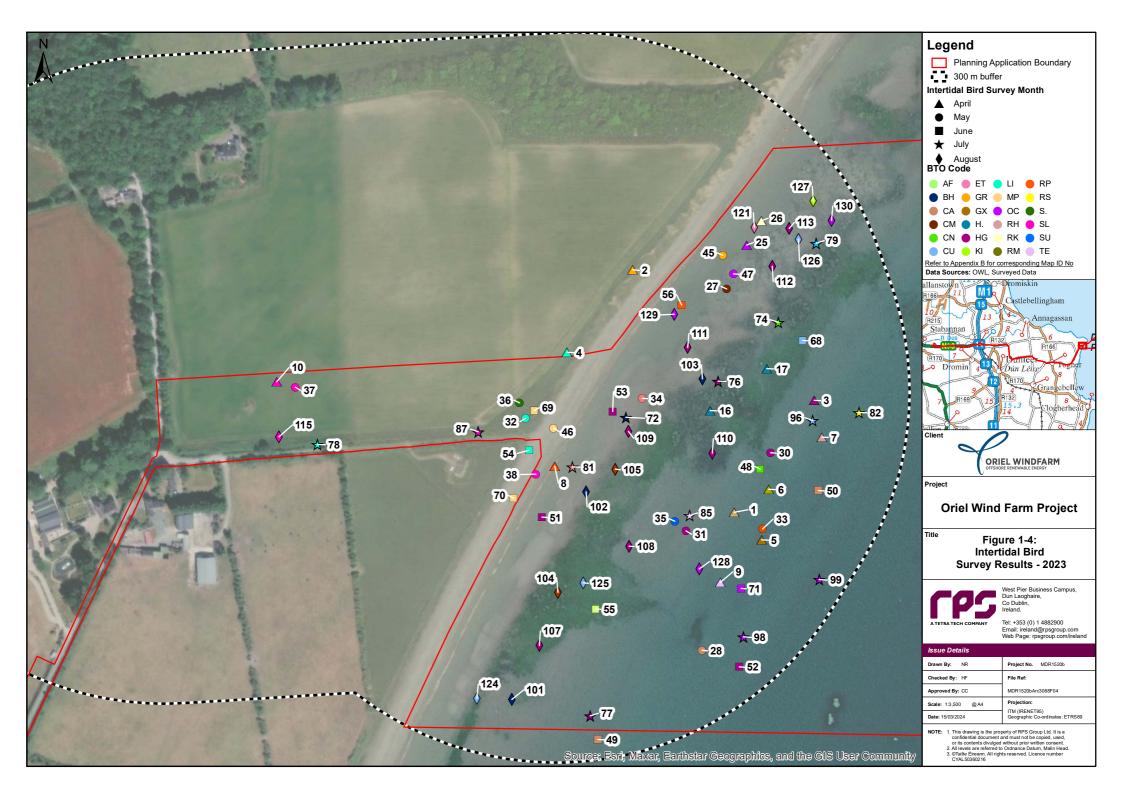












## **Amphibians and reptiles**

Common frog was the only amphibian or reptile returned from the desk study within the ZoI. No specific amphibian and reptile surveys were conducted; therefore, the absence of field study records of the species was expected.

Although no common frog (spawn/tadpole/froglet/adult) or smooth newts (spawn/larvae/juvenile/adult) were encountered during the field study, suitable habitats for common frog (damp vegetation, ponds, and hedgerows) and smooth newt (standing water, open water pools, and wet grassland) were recorded. These species are considered likely to be present within the onshore substation site and onshore cable route.

No common lizard individuals were encountered during the field study, and their suitable habitats (woods/scrub with basking sites on south facing slopes) were not recorded. This species is considered unlikely to occur within the onshore substation site and onshore cable route.

#### **Invertebrates**

#### **Terrestrial**

A single species of butterfly and a bumble bee were noted from the desk study. These comprised of the wood white *Leptidea sinapsis* butterfly and a red-tailed bumblebee *Bombus lapidaries*. No specific terrestrial invertebrate surveys were conducted, and no notable species were recorded while completing the field study; although, several individual painted lady *Cynthia cardui* butterflies were noted within neutral grassland (GS1) habitat.

In terms of EU protected species, marsh fritillary *Euphydryas aurinia* colonies can occur in a wide variety of habitats including some of those encountered at the onshore substation site and onshore cable route (e.g. neutral grassland). However, the presence of its food plant devil's-bit scabious *Succisa pratensis*, an essential habitat component to its lifecycle, was not recorded from the onshore substation site and onshore cable route.

## Freshwater aquatic

A total of 8 sites were assessed for freshwater aquatic invertebrate potential. A review of desk study records indicates that the nearest record for white clawed crayfish is from the third order River Dee, approximately 18.5 km upstream of the onshore substation site and onshore cable route. Table 1-22 summarises the freshwater aquatic invertebrate results for these sites.

Table 1-22: Freshwater aquatic invertebrate survey results.

Site code / name	Freshwater aquatic invertebrate results	EPA assigned Q-value (closest monitoring station)
A-1 / Rock 06 Stream	Survey Results  A 2 minute pond sweep revealed the stream was dominated by pollution tolerant species including Gammarus <i>Gammarus</i> sp. which dominated the sample, meniscus midges <i>Dixa</i> sp., and riffle bugs - Vellidae which were common, and water-hog louse <i>Asellus aquaticus</i> , aquatic worm - Lumbriculidae, New Zealand mud snail <i>Potamopyrgus antipodarum</i> , non-biting midges - Chironomidae, biting midges - Ceratopogonidae, river limpet <i>Ancylus fluviatilis</i> , marsh beetle - Scirtidae and flatworm - Platyhelminthes which were few. A single cased caddis fly of the family Limnephilidae was also recorded. Dense instream vegetation would indicate nutrient enrichment. A bio-index assessment and SSRS were not calculated due to the absence of relatively fast flowing habitat in the stream. Dissolved oxygen was measured at 91.8% and 9.64 mg/l. Temperature was 13.3°C, pH was 7.4 and conductivity was relatively high at 905 μS/cm. Crayfish habitat suitability was rated as 'none' due to the silty substrate with no gravels or boulders, very low depth of water and very dense vegetation choking the stream.	Q4 (Good); Year= 2020; Station= 150 m d/s old Rly Br (LHS).

Site code / name	Freshwater aquatic invertebrate results	EPA assigned Q-value (closest monitoring station)
A-2 / River Dee at N33 bridge crossing	Survey Results  A macroinvertebrate sample was not collected as the River Dee could not be entered at this location due to fast flow and water depth. Physiochemical parameters were recorded using field probes 370 m downstream. Dissolved oxygen was measured at 89.5% and 8.8 mg/l. Temperature was 16.5°C, pH was 7.99 and conductivity was 513 $\mu$ S/cm. Visibilty was poor due to turbidity, however crayfish habitat suitability was estimated to be 'good' due to the presence of deep water, overhanging vegetation and the presence of coarse substrate within the river.	Q3-4 (Moderate); Year= 2006; Station= DEE New Br u/s Drumgoolestown Br.
A-3 / River Dee at Drumcar Bridge	Survey Results  The macroinvertebrate sample recorded 25 taxa in total, with Group C (pollution tolerant) taxa forming most of the sample. Two Group A (pollution sensitive) taxa were present in few numbers – the flat-bodied mayflies <i>Ecdyonurus</i> sp. and <i>Heptagenia</i> sp Three Group B (less pollution sensitive) taxa were few, namely the cased caddis flies <i>Lepidostoma hirtum</i> and <i>Sericostoma personatum</i> and the mayfly <i>Alainites muticus</i> . The Group C taxon black fly - Simuliidae dominated the sample, whereas the Group C mayfly taxon <i>Seratella ignita</i> was common. It must be noted that water levels were elevated at the time of sampling. The bio-index species composition inferred a Q-value of 3-4 (moderate status). Dissolved oxygen was measured at 92.7% and 8.95 mg/l. Temperature was 17.2 °C, pH was 8.02 and conductivity was 502 μS/cm.  High coloured water and turbidity made substrate difficult to assess. However, a review of aerial imagery indicates there are areas of gravels present downstream of the bridge. Where the macroinvertebrate sample was taken the substrate was cobble/coarse gravel dominated.  No crayfish were present in the kick-sample. Due to the presence of soft banks, overhanging vegetation, aquatic vegetation, submerged tree roots and coarse substrate, a habitat rating of 'very good' was assigned for crayfish.	4 (Good); Year= 2020; Station = Br. At Drumcar.
A-4 / Newhall 06 Stream	Survey Results  The macroinvertebrate sample recorded 15 taxa in total, with Group C (pollution tolerant) taxa forming most of the sample. No Group A (pollution sensitive) taxa were recorded. Three Group B (less pollution sensitive) taxa were recorded in small numbers, namely the cased caddis flies of the families Limnephilidae and Glossosomatidae, and the species Sericostoma personatum. The Group C taxon Gammarus sp. was recorded in excessive numbers. The Group D (very pollution tolerant) taxon Asellus aquaticus was numerous. The Group C taxa mayflies Baetis rhodani/atlanticus, riffe beetles Elmis aenea and Chironomidae were common. A bio-index assessment was not appropriate in this small 1st order stream and therefore an SSRS was deemed more suitable. A score of 3.2 was calculated indicating that the stream is "At Risk". Dissolved oxygen was measured at 102.8% and 10.3 mg/l. Temperature was 15.1°C, pH was 7.64 and conductivity was 632 μS/cm.  No crayfish were collected in the kick-sample. Based on the moderate siltation, high turbidity, presence of coarse substrate and overhanging vegetation a crayfish habitat appraisal rating of 'poor' was assigned.	4 (Good); Year= 2020; Station = Br. At Drumcar.

Site code / name	Freshwater aquatic invertebrate results	EPA assigned Q-value (closest monitoring station)
A-8 / Salterstown Stream downstream Site 6	Survey Results  The macroinvertebrate sample recorded 14 taxa in total, with Group C taxa dominating the sample. No Group A taxa were recorded. Three Group B (less pollution sensitive) taxa were recorded in small numbers, namely the cased caddis flies Limnephilidae and Sericostoma personatum and the mayfly Alainites muticus. The Group C taxon Gammarus sp. was recorded in excessive numbers. An SSRS of 5.6 was calculated, indicating that the stream is "At Risk". Dissolved oxygen was measured at 83% and 8.66 mg/l. Temperature was 13.6°C, pH was 7.70 and conductivity was 621 μS/cm.  No crayfish were present within the kick sample. Suitable habitat in the form of tree roots, boulders and cobbles were recorded in the channel, however siltation was evident. Crayfish habitat was rated as 'good'.	No monitoring station connected to this stream.
A-9 / Port 06 Stream	A 3 minute pond sweep revealed the stream was dominated by pollution tolerant species including <i>Asellus aquaticus</i> which was numerous, and <i>Gammarus</i> sp., <i>Potamopyrgus antipodarum</i> , bivalve molluscs - Sphaeriidae and water mites - Hydracarina which were common. the cased caddis flies Limnephilidae (Group B) were few. Dissolved oxygen was measured at 75.9% and 7.76 mg/l. Temperature was 13.8°C, pH was 7.55 and conductivity was 667 μS/cm.The stream was not suitable for aquatic bio-index assessment, however as glide habitat was recorded within the stream an SSRS was calculated. A score of 0.8 was calculated indicating that the stream is "At Risk". Given the absence of riffle habtiat sampled (where sensitive taxa are likely to be found), this score should be interpreted with caution. Notwithstanding this limitation, based on satellite imagery the Port Stream appears to be slow-flowing and drain-like throughout it's length, and therefore the habitat surveyed at this site is likely to be representative of the habitat throughout the system. Crayfish habitat was assigned a rating of 'poor' due to the presence of soft banks and rooted aquatic vegetation, which could provide some limited habitat.	No monitoring station connected to this stream.
A-10 / Port 06 Stream upstream Site 9	Survey Results  A macroinvertebrate survey was not collected due to the overgrown channel vegetation, extremely soft silted substrate and stagnant flow recorded. Dissolved oxygen was measured at 56.6% and 5.61 mg/l. Temperature was 15.5°C, pH was 7.04 and conductivity was relatively high at 929 µS/cm.Crayfish habitat was assigned a rating of none.	No monitoring station connected to this stream.
A-11 / Broadlough Stream	Survey Results A 2 minute pond sweep of the drain, where accessible, revealed the macroinvertebrate community was dominated by pollution tolerant species including <i>Gammarus</i> sp., <i>Asellus aquaticus</i> , Chironomidae and Platyhelminthes. A total of 10 taxa were recorded. An aquatic bio-index assessment and SSRS were not calculated due to the absence of relatively fast flowing habitat in the stream. Dissolved oxygen was measured at 79.8% and 8.21 mg/l. Temperature was 14.2°C, pH was 7.56 and conductivity was relatively high at 1001 μS/cm. Crayfish habitat was assigned a rating of none.	Q4 (Good); Year= 2020; Station= 150 m d/s old Rly Br (LHS).
	Dutbreaks Update August 2019. National Parks and Wildlife & the Marine Institute. rsityireland.ie/wordpress/wp-content/uploads/CRAYFISH-PLAGUE-NPWS-UPDAT y 2020.	

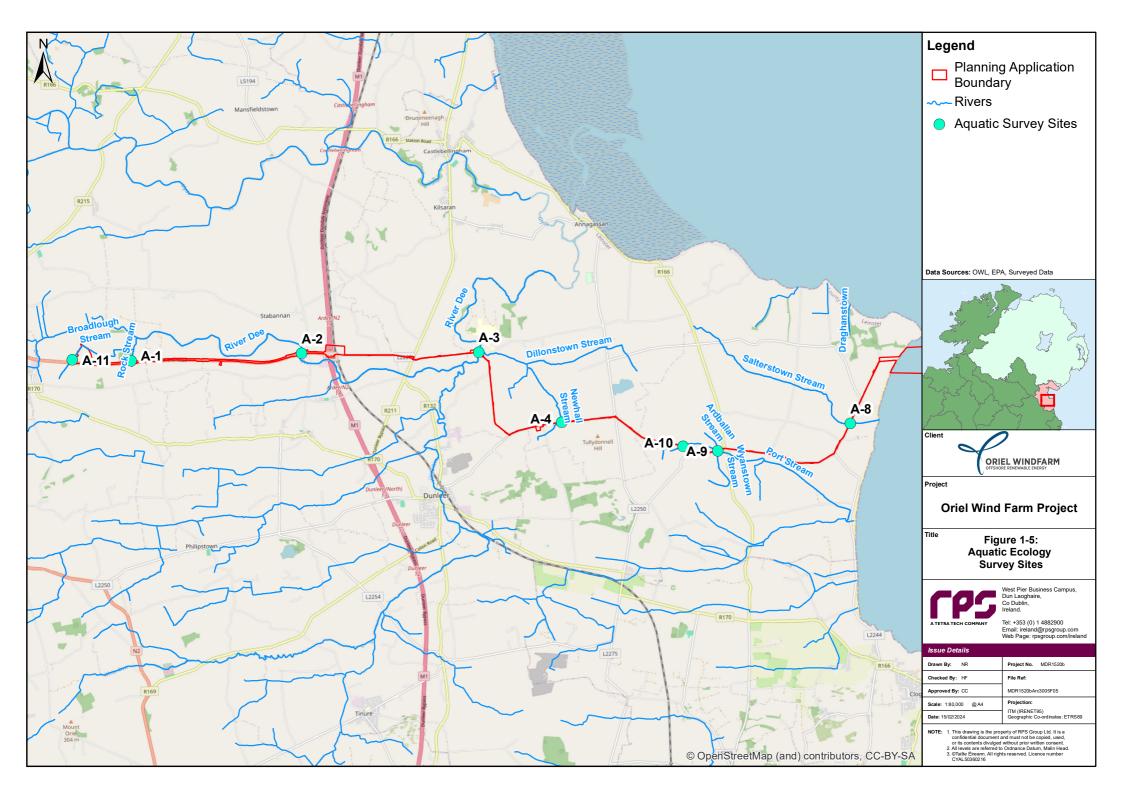
# Fish

A total of 8 sites were assessed for salmonid fish potential. The site code, watercourse name (EPA), and salmonid fish assessment results are detailed in Table 1-23.

## Table 1-23: Salmonid fish assessment results.

Site code / name	Salmonid fish assessment results
A-1 / Rock 06 Stream	Survey Results
	Good spawning substrates were not present. Salmonid and lamprey spawning habitat was rated as 'None' due to high siltation, no riffle/ glide /pool habitat sequence present and no gravels. The stream has been modified into a drainage ditch with no habitat characteristics suitable for adult salmonid or lamprey spawning.
	For juvenile salmonids there was no overhanging vegetation, no coarse substrate and flow was slow. The substrate consisted of 100% silt. These conditions are not representative of juvenile salmonid habitat and a rating of 'None' was assigned.
	Lamprey nursery habitat was rated as 'Fair'. Shallow slow flowing water with silted areas were present. Dense aquatic vegetation in sections are indicative of nutrient enrichment. There are limited unvegetated silted areas and nursery habitat is sub-optimal. Whether lamprey actually occur within the channel is questionable, however, as no suitable spawning habitat was noted on the day of survey.
A-2 / River Dee at N33	Survey Results
bridge crossing	Conditions for undertaking fish habitat appraisals at this site were suboptimal due to high flow conditions and poor visibility. Nevertheless, some instream habitats were visible so a tentative assessment was made. Salmonid and lamprey adult and spawning habitat was assessed as 'Fair' due to the presence of some gravel habitat as well as deep pool and glide habitat for resting adults. Juvenile salmonid habitat was rated as 'Fair' due to the presence of suitable cover and coarse substrate. As the survey was carried out from a bridge, possible lamprey nursery habitat (e.g. silty deposits along the river margins) was diffiult to see so an assessment was not made.
A-3 / River Dee at	Survey Results
Drumcar Bridge	Salmonid adult and spawning was rating as 'Very Good' due to the presence of cobble/gravel spawning habitat, resting pools for adults and low siltation within the gravels. Juvenile salmonid habitat was also rated as 'Very Good' due to the presence of areas of shallow, fast flowing water and coarse substrate. Cover was noted in the form of aquatic vegetation and overhanging vegetation. Lamprey spawning habitat was rated as 'very good' due to the presence of cobble/gravel spawning habitat, resting pools for adults and low siltation within the gravels. Lamprey nursery was rated as 'Very Good' due to the presence of deep silty deposits along the river margins. A lamprey was captured within the kick-net during the macroinvertebrate sample collection.
A-4 / Newhall 06 Stream	Survey Results
	Salmonid and lamprey spawning habitat was assigned a rating of 'None-Poor'. Juvenile salmonid habitat was rated as 'Fair', due to the presence of fast flowing water over coarse substrate, and cover in the form of overhanging vegetation. It should be noted that water quality at this stream (at risk) is likely to affect juvenile salmonids and lamprey should they occur in this stream. Lamprey nursery habitat potential was assigned a rating of 'None-Poor'. There were no silted areas of slow backwater within the survey reach, only small areas of silty deposits within the stream channel were noted.
A-8 / Salterstown Stream	Survey Results
downstream Site 6	Salmonid spawning and adult habitat for this stream was rated as 'Fair', due to the presece of cobble and gravel spawning habitat and resting pools for adults. The stream is more suited to brown trout as opposed to salmon due to it's small size. It is worth noting, however, that low dissolved oxygen levels (83%) and an SSRS of 4 are indicative of pollution. Heavy siltation of the gravels was also noted. Juvenile salmonid habitat was rated as 'Good' due to the presence of shallow, fast flowing water, cover in the form of overhanging vegetation and coarse substrate. Lamprey nursery habitat within the stream was limited and no areas with deep silt/sandy deposits suitable for ammocetes was noted. A rating of 'None-Poor' was assigned.
A-9 / Port 06 Stream	Survey Results
	Salmonid and lamprey adult and spawning habitat was rated as 'None'. The stream was heavily vegetated and silted, with no suitable spawning habitat. The substrate was 100% silt. Juvenile salmonid habitat was also assigned a rating of 'None' due to the slow flowing and silty nature of the stream. Lamprey nursery habitat was assigned a rating of 'Good' due to the presence of a deep silt layer in the channel and slow flowing water. Whether lamprey actually occur within the channel is questionable, however, as no suitable spawning habitat was noted on the day of survey.

Site code / name	Salmonid fish assessment results
A-10 / Port 06 Stream upstream Site 9	Survey Results There is no potential for salmonids or lamprey at any life stage at the site surveyed and a habitat rating of None was assigned. The stream was stagnant, drain-like and choked with aquatic vegetation. DO was measured at 56.6%.
A-11 / Broadlough Stream	Survey Results Salmonid and lamprey adult and spawning habitat was rated as 'None'. The stream was heavily vegetated and silted, with no suitable spawning habitat. The substrate was 100% silt. Juvenile salmonid habitat was also assigned a rating of 'None' due to the slow flowing and silty nature of the stream. Lamprey nursery habitat was assigned a rating of 'None-poor' due to the presence of a deep silt layer and slow-stagnant flow in the channel. Whether lamprey actually occur within the channel is questionable, however, as no suitable spawning habitat was noted on the day of survey.



## 1.3 Geographic frames of reference outlined by the NRA (2009)

# Ecological valuation: Examples International Importance: 'European Site' including Special Area of Conservation (SAC), Site of Community Importance (SCI), Special Protection Area (SPA) or proposed Special Area of Conservation. Proposed Special Protection Area (pSPA). Site that fulfills the criteria for designation as a 'European Site' (see Annex III of the Habitats Directive, as amended). Features essential to maintaining the coherence of the Natura 2000 Network.<sup>4</sup> Site containing 'best examples' of the habitat types listed in Annex I of the Habitats Directive. Resident or regularly occurring populations (assessed to be important at the national level)<sup>5</sup> of Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive; and/or Species of animal and plants listed in Annex II and/or IV of the Habitats Directive. Ramsar Site (Convention on Wetlands of International Importance Especially Waterfowl Habitat 1971). World Heritage Site (Convention for the Protection of World Cultural & Natural Heritage, 1972). Biosphere Reserve (UNESCO Man & The Biosphere Programme). Site hosting significant species populations under the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals, 1979). Site hosting significant populations under the Berne Convention (Convention on the Conservation of European Wildlife and Natural Habitats, 1979). Biogenetic Reserve under the Council of Europe. European Diploma Site under the Council of Europe. Salmonid water designated pursuant to the European Communities (Quality of Salmonid Waters) Regulations, 1988, (S.I. No. 293 of 1988).6 National Importance: Site designated or proposed as a Natural Heritage Area (NHA). Statutory Nature Reserve. Refuge for Fauna and Flora protected under the Wildlife Acts. National Park. Undesignated site fulfilling the criteria for designation as a Natural Heritage Area (NHA); Statutory Nature Reserve; Refuge for Fauna and Flora protected under the Wildlife Act; and/or Resident or regularly occurring populations (assessed to be important at the national level)<sup>7</sup> of the following: Species protected under the Wildlife Acts; and/or Species listed on the relevant Red Data list. Site containing 'viable areas's of the habitat types listed in Annex I of the Habitats Directive.

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See Articles 3 and 10 of the Habitats Directive.

It is suggested that, in general, 1% of the national population of such species qualifies as an internationally important population. However, a smaller population may qualify as internationally important where the population forms a critical part of a wider population or the species is at a critical phase of its life cycle.

Note that such waters are designated based on these waters' capabilities of supporting salmon (Salmo salar), trout (Salmo trutta), char (Salvelinus) and whitefish (Coregonus).

<sup>7</sup> It is suggested that, in general, 1% of the national population of such species qualifies as a nationally important population. However, a smaller population may qualify as nationally important where the population forms a critical part of a wider population or the species is at a critical phase of its life cycle.

<sup>8</sup> A 'viable area' is defined as an area of a habitat that, given the particular characteristics of that habitat, was of a sufficient size and shape, such that its integrity (in terms of species composition, and ecological processes and function) would be maintained in the face of stochastic change (for example, as a result of climatic variation).

8	Count	y Importance:
		Area of Special Amenity.9
		Area subject to a Tree Preservation Order.
		Area of High Amenity, or equivalent, designated under the County Development Plan.
		Resident or regularly occurring populations (assessed to be important at the County level) <sup>10</sup> of the following:
		☐ Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive;
		☐ Species of animal and plants listed in Annex II and/or IV of the Habitats Directive;
		☐ Species protected under the Wildlife Acts; and/or
		☐ Species listed on the relevant Red Data list.
		Site containing area or areas of the habitat types listed in Annex I of the Habitats Directive that do not fulfil the criteria for valuation as of International or National importance.
	0	County important populations of species, or viable areas of semi-natural habitats or natural heritage features identified in the National or Local BAP, if this has been prepared.
		Sites containing semi-natural habitat types with high biodiversity in a county context and a high degree of naturalness, or populations of species that are uncommon within the county.
		Sites containing habitats and species that are rare or are undergoing a decline in quality or extent at a national level.
A BOOK	Local	Importance (higher value):
		Locally important populations of priority species or habitats or natural heritage features identified in the Local BAP, if this has been prepared;
	0	Resident or regularly occurring populations (assessed to be important at the Local level) <sup>12</sup> of the following:
		☐ Species of bird, listed in Annex I and/or referred to in Article 4(2) of the Birds Directive;
		☐ Species of animal and plants listed in Annex II and/or IV of the Habitats Directive;
		☐ Species protected under the Wildlife Acts; and/or
		☐ Species listed on the relevant Red Data list.
	0	Sites containing semi-natural habitat types with high biodiversity in a local context and a high degree of naturalness, or populations of species that are uncommon in the locality;
		Sites or features containing common or lower value habitats, including naturalised species that are nevertheless essential in maintaining links and ecological corridors between features of higher ecological value.
	Local	Importance (lower value):
100		Sites containing small areas of semi-natural habitat that are of some local importance for wildlife;
		Sites or features containing non-native species that are of some importance in maintaining
		habitat links.
	Ta	able 1: Examples of valuation at different geographical scales
9	of High	d be noted that whilst areas such as Areas of Special Amenity, areas subject to a Tree Preservation Order and Areas Amenity are often designated on the basis of their ecological value, they may also be designated for other reasons, their amenity or recreational value. Therefore, it should not be automatically assumed that such sites are of County
10	It is su Howev	ance from an ecological perspective.  ggested that, in general, 1% of the County population of such species qualifies as a County important population.  er, a smaller population may qualify as County important where the population forms a critical part of a wider
11	BAP: E	ion or the species is at a critical phase of its life cycle. liodiversity Action Plan gested that, in general, 1% of the local population of such species qualifies as a locally important population. However, er population may qualify as locally important where the population forms a critical part of a wider population or the
		is at a critical phase of its life cycle.

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### **Annex A**

Breeding bird survey data 2023

Table 1: BTO Species Codes.

BTO Code	Common name	Scientific name
B.	Blackbird	Turdus merula
BC	Blackcap	Sylvia atricapilla
BF	Bullfinch	Pyrrhula pyrrhula
ВН	Black-headed gull	Chroicocephalus ridibundus
BT	Blue tit	Cyanistes caeruleus
BZ	Buzzard	Buteo buteo
CA	Cormorant	Phalacrocorax carbo
CC	Chiffchaff	Phylloscopus collybita
CD	Collard dove	Streptopelia decaocto
СН	Chaffinch	Fringilla coelebs
СТ	Coal tit	Periparus ater
D.	Dunnock	Prunella modularis
GC	Goldcrest	Regulus regulus
GO	Goldfinch	Carduelis carduelis
GR	Greenfinch	Chloris chloris
GT	Great tit	Parus major
HC	Hooded crow	Corvus corone
HG	Herring gull	Larus argentatus
HM	House martin	Delichon urbicum
HS	House sparrow	Passer domesticus
JD	Jackdaw	Corvus monedula
KF	Kingfisher	Alcedo atthis
LI	Linnet	Linaria cannabina
LT	Long-tailed tit	Aegithalos caudatus
M.	Mistle thrush	Turdus viscivorus
MG	Magpie	Pica pica
MH	Moorhen	Gallinula chloropus
MP	Meadow pipit	Pipit Anthus pratensis
PH	Pheasant	Phasianus colchicus
PW	Pied wagtail	Motacilla alba yarrelli

BTO Code	Common name	Scientific name	
R.	Robin	Erithacus rubecula	
RB	Reed bunting	Emberiza schoeniclus	
RO	Rook	Corvus frugilegus	
S.	Skylark	Alauda arvensis	
SC	Stonechat	Saxicola torquatus	
SD	Stock dove	Columba oenas	
SG	Starling	Sturnus vulgaris	
SH	Sparrowhawk	Accipiter nisus	
SL	Swallow	Hirundo rustica	
ST	Song thrush	Turdus philomelos	
SW	Sedge warbler	Acrocephalus schoenobaenus	
TC	Treecreeper	Certhia familiaris	
WH	Whitethroat	Sylvia communis	
WM	Whimbrel	Numenius phaeopus	
WP	Woodpigeon	Columba palumbus	
WR	Wren	Troglodytes troglodytes	
WW	Willow warbler	Phylloscopus trochilus	
Υ.	Yellowhammer	Emberiza citrinella	

Table 2: Breeding Bird Survey - Weather Data.

Date	Time	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Frost	Snow	Temperature (°C)
30/05/2023	06:00	2	NE	0	0	2	2	0	0	10
30/05/2023	07:00	2	NE	0	0	2	2	0	0	12
30/05/2023	08:00	3	NE	0	0	2	2	0	0	13
30/05/2023	09:00	3	NEE	0	0	2	2	0	0	14
30/05/2023	10:00	3	E	0	0	2	2	0	0	15
30/05/2023	11:00	3	E	0	0	2	2	0	0	16
31/05/2023	06:00	1	N	0	0	2	2	0	0	9
31/05/2023	07:00	2	NNE	0	1	2	2	0	0	12

Date	Time	Wind speed	Wind direction	Rain	Cloud cover	Cloud height	Visibility	Frost	Snow	Temperature (°C)
31/05/2023	08:00	2	NEE	0	5	2	2	0	0	13
31/05/2023	09:00	3	E	0	7	2	2	0	0	14
31/05/2023	10:00	3	E	0	8	2	2	0	0	15
31/05/2023	11:00	3	E	0	8	2	2	0	0	16
26/06/2023	06:00	3	SW	0	0	2	2	0	0	11
26/06/2023	07:00	3	SWW	0	0	2	2	0	0	12
26/06/2023	08:00	4	SWW	0	0	2	2	0	0	13
26/06/2023	09:00	4	SWW	0	0	2	2	0	0	15
26/06/2023	10:00	4	SW	0	0	2	2	0	0	15
26/06/2023	11:00	4	SW	0	0	2	2	0	0	16
27/06/2023	06:00	3	S	1	8	1	1	0	0	14
27/06/2023	07:00	3	S	0	8	1	1	0	0	15
27/06/2023	08:00	3	SSW	1	8	1	2	0	0	15
27/06/2023	09:00	3	SSW	0	8	2	2	0	0	17
27/06/2023	10:00	4	SW	0	8	2	2	0	0	18
27/06/2023	11:00	4	SW	0	8	2	2	0	0	19
25/07/2023	06:00	2	SW	0	2	2	2	0	0	9
25/07/2023	07:00	2	SW	0	2	2	2	0	0	10
25/07/2023	08:00	2	SW	0	3	2	2	0	0	12
25/07/2023	09:00	2	SW	0	4	2	2	0	0	14
25/07/2023	10:00	3	S	0	5	2	2	0	0	14
25/07/2023	11:00	3	SSE	0	5	2	2	0	0	17
26/07/2023	06:00	2	E	0	5	2	2	0	0	10
26/07/2023	07:00	2	E	0	4	2	2	0	0	11
26/07/2023	08:00	2	E	0	4	2	2	0	0	14
26/07/2023	09:00	3	E	0	3	2	2	0	0	15
26/07/2023	10:00	3	E	0	5	2	2	0	0	15
26/07/2023	11:00	3	NE	0	7	2	2	0	0	14

Table 3: 2023 Breeding Bird Survey Data.

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1	1	25/04/2023	LI	Amber	1			Singing	
2	1	25/04/2023	SC	Green	2			Singing	
3	1	25/04/2023	WR	Green	1			Singing	
4	1	25/04/2023	D.	Green	1			Singing	
5	1	25/04/2023	RB	Green	1			Perched	
6	1	25/04/2023	WM	Green	1			Foraging	
7	1	25/04/2023	R.	Green	1			Perched	
8	1	25/04/2023	LI	Amber	2			Singing	
9	1	25/04/2023	D.	Green	1			Singing	
10	1	25/04/2023	B.	Green	1			Perched	
11	1	25/04/2023	LI	Amber	1			Singing	
12	1	25/04/2023	WP	Green	1			Perched	
13	1	25/04/2023	WR	Green	1			Singing	
14	1	25/04/2023	LI	Amber	1			Perched	
15	1	25/04/2023	LI	Amber	1			Singing	
16	1	25/04/2023	B.	Green	1			Perched	
17	1	25/04/2023	ВС	Green	1			Perched	
18	1	25/04/2023	PH	NA	1			On ground	
19	1	25/04/2023	R.	Green	1			Perched	
20	1	25/04/2023	BF	Green	1			Singing	
21	1	25/04/2023	CD	Green	3			Perched	
22	1	25/04/2023	HC	Green	2			Perched	
23	1	25/04/2023	D.	Green	1			Singing	
24	1	25/04/2023	R.	Green	1			Singing	
25	1	25/04/2023	ВТ	Green	1			Perched	
26	1	25/04/2023	SG	Amber	1			Singing	
27	1	25/04/2023	D.	Green	1			Singing	
28	1	25/04/2023	CD	Green	1			Singing	
29	1	25/04/2023	JD	Green	1			Flying	
30	1	25/04/2023	В.	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment
31	1	25/04/2023	GO	Green	1			Perched
32	1	25/04/2023	ST	Green	1			Singing
33	1	25/04/2023	R.	Green	1			Singing
34	1	25/04/2023	СН	Green	1			Singing
35	1	25/04/2023	WP	Green	1			Perched
36	1	25/04/2023	B.	Green	1			Perched
37	1	25/04/2023	WP	Green	1			Perched
38	1	25/04/2023	WR	Green	1			Singing
39	1	25/04/2023	HS	Amber	1			Singing
40	1	25/04/2023	WR	Green	1			Singing
41	1	25/04/2023	Y.	Red	1			Singing
42	1	25/04/2023	LI	Amber	2			Perched
43	1	25/04/2023	B.	Green	1			Singing
44	1	25/04/2023	WR	Green	1			On ground
45	1	25/04/2023	SL	Amber	2			Perched
46	1	25/04/2023	ВТ	Green	1			Singing
47	1	25/04/2023	RO	Green	4			On ground
48	1	25/04/2023	SD	Red	2			Perched
49	1	25/04/2023	ВТ	Green	2			Perched
50	1	25/04/2023	PH	NA	1			On ground
51	1	25/04/2023	WP	Green	1			Perched
52	1	25/04/2023	ВТ	Green	1			Singing
53	1	25/04/2023	HC	Green	1			On ground
54	1	25/04/2023	B.	Green	1			Perched
55	1	25/04/2023	HS	Amber	2			Perched
56	1	25/04/2023	ВС	Green	1			Singing
57	1	25/04/2023	R.	Green	1			Singing
58	1	25/04/2023	SG	Amber	1			Perched
59	1	25/04/2023	BC	Green	1			Singing
60	1	25/04/2023	MG	Green	1			Perched
61	1	25/04/2023	B.	Green	1			Perched
62	1	25/04/2023	ВТ	Green	1			Perched

64	1	25/04/2023				Age	Activity Comment
		_5,5 ,, _5_5	MH	Green	1		Calling
	1	25/04/2023	GT	Green	1		Singing
65	1	25/04/2023	WR	Green	1		Singing
66	1	25/04/2023	ВТ	Green	1		Perched
67	1	25/04/2023	WP	Green	2		Perched
68	1	25/04/2023	WR	Green	1		Singing
69	1	25/04/2023	GR	Amber	1		Singing
70	1	25/04/2023	JD	Green	2		On ground
71	1	25/04/2023	R.	Green	1		Perched
72	1	25/04/2023	B.	Green	1		Perched
73	1	25/04/2023	HS	Amber	1		Perched
74	1	25/04/2023	SL	Amber	1		Flying
75	1	25/04/2023	CD	Green	1		Perched
76	1	25/04/2023	WR	Green	11		Singing
77	1	25/04/2023	B.	Green	1		Singing
78	1	25/04/2023	WR	Green	1		Singing
79	1	25/04/2023	ВТ	Green	2		Perched
80	1	25/04/2023	B.	Green	1		Perched
81	1	25/04/2023	MG	Green	1		Perched
82	1	25/04/2023	ВС	Green	1		Singing
83	1	25/04/2023	WP	Green	1		Singing
84	1	25/04/2023	B.	Green	2		Perched
85	1	25/04/2023	SL	Amber	1		Flying
86	1	25/04/2023	GR	Amber	1		Singing
87	1	25/04/2023	WR	Green	1		Singing
88	1	25/04/2023	СТ	Green	1		Singing
89	1	25/04/2023	WR	Green	1		Singing
90	1	25/04/2023	ВС	Green	1		On ground
91	1	25/04/2023	B.	Green	1		 Singing
92	1	25/04/2023	SL	Amber	2		Flying
93	1	25/04/2023	SG	Amber	1		Perched
94	1	25/04/2023	Y.	Red	1		Singing

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
95	1	25/04/2023	BZ	Green	2			Flying	Circling
96	1	25/04/2023	BF	Green	1			Singing	
97	1	25/04/2023	B.	Green	1			Singing	
98	1	25/04/2023	CH	Green	1			Perched	
99	1	25/04/2023	SG	Amber	2			Perched	
100	1	25/04/2023	В.	Green	1			Singing	
101	1	25/04/2023	CC	Green	1			Singing	
102	1	25/04/2023	WP	Green	1			Perched	
103	1	25/04/2023	RO	Green	15			Perched	Potential rookery
104	1	25/04/2023	HS	Amber	1			Perched	
105	1	25/04/2023	WP	Green	2			Perched	
106	1	25/04/2023	GT	Green	1			Perched	
107	1	25/04/2023	СН	Green	1			Perched	
108	1	25/04/2023	WP	Green	1			Singing	
109	1	25/04/2023	MG	Green	1			Perched	
110	1	25/04/2023	ВТ	Green	2			Perched	
111	1	25/04/2023	WP	Green	1			Singing	
112	1	25/04/2023	WR	Green	1			Singing	
113	1	25/04/2023	WP	Green	1			Perched	
114	1	25/04/2023	HS	Amber	4			Perched	
115	1	25/04/2023	BF	Green	1			Singing	
116	1	25/04/2023	ВТ	Green	1			Perched	
117	1	25/04/2023	GR	Amber	1			Singing	
118	1	25/04/2023	WR	Green	1			Singing	
119	1	25/04/2023	HS	Amber	5			Perched	
120	1	25/04/2023	СН	Green	1			Singing	
121	1	25/04/2023	GT	Green	1			Perched	
122	1	25/04/2023	WR	Green	1			Perched	
123	1	25/04/2023	GC	Amber	2			Singing	
124	1	25/04/2023	B.	Green	1			Singing	
125	1	25/04/2023	D.	Green	1			Singing	
126	1	25/04/2023	LI	Amber	2			Perched	

127         1         2504/2023         BC         Green         1         Singing           128         1         2504/2023         WR         Green         2         Perched           130         1         2504/2023         WR         Green         1         Singing           131         1         2504/2023         R.         Green         1         Singing           132         1         2504/2023         BT         Green         1         Singing           133         1         2504/2023         BT         Green         1         Singing           134         1         2504/2023         BF         Green         1         Singing           134         1         2504/2023         BF         Green         1         Singing           135         1         2504/2023         GC         Amber         1         Singing           137         1         2504/2023         B.         Green         1         Singing           138         1         2504/2023         B.         Green         1         Singing           140         1         2504/2023         BC         Green         1	ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
129	127	1	25/04/2023	ВС	Green	1			Singing	
130	128	1	25/04/2023	WR	Green	1			Singing	
131         1         25/04/2023         R.         Green         1         Singing           132         1         25/04/2023         BT         Green         1         Singing           133         1         25/04/2023         M.         Green         1         Singing           134         1         25/04/2023         BF         Green         1         Singing           135         1         25/04/2023         GC         Amber         1         Singing           136         1         25/04/2023         CH         Green         1         Singing           137         1         25/04/2023         B.         Green         1         Singing           138         1         25/04/2023         D.         Green         1         Singing           139         1         25/04/2023         B.C         Green         1         Singing           140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         ST         Green         1         Singing           142         1         25/04/2023         ST         Green         <	129	1	25/04/2023	B.	Green	2			Perched	
132         1         25/04/2023         BT         Green         1         Singing           133         1         25/04/2023         M.         Green         1         Singing           134         1         25/04/2023         BF         Green         1         Singing           135         1         25/04/2023         GC         Amber         1         Singing           136         1         25/04/2023         GC         Amber         1         Singing           137         1         25/04/2023         B.         Green         1         Singing           138         1         25/04/2023         D.         Green         1         Singing           139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         BC         Green         1         Singing           141         1         25/04/2023         WR         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         ST         Green <t< td=""><td>130</td><td>1</td><td>25/04/2023</td><td>WR</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	130	1	25/04/2023	WR	Green	1			Singing	
133         1         25/04/2023         M.         Green         1         Singing           134         1         25/04/2023         BF         Green         1         Singing           135         1         25/04/2023         GC         Amber         1         Singing           136         1         25/04/2023         CH         Green         1         Singing           137         1         25/04/2023         B.         Green         1         Singing           138         1         25/04/2023         B.         Green         1         Singing           139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         BC         Green         1         Singing           141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         ST         Green         1         Perched           144         1         25/04/2023         SL         Amber <t< td=""><td>131</td><td>1</td><td>25/04/2023</td><td>R.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	131	1	25/04/2023	R.	Green	1			Singing	
134         1         25/04/2023         BF         Green         1         Singing           135         1         25/04/2023         GC         Amber         1         Singing           136         1         25/04/2023         CH         Green         1         Singing           137         1         25/04/2023         B.         Green         1         Singing           138         1         25/04/2023         D.         Green         1         Singing           139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         WR         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         ST         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Perched           145         1         25/04/2023         TC         Green <t< td=""><td>132</td><td>1</td><td>25/04/2023</td><td>ВТ</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	132	1	25/04/2023	ВТ	Green	1			Singing	
135	133	1	25/04/2023	M.	Green	1			Singing	
136         1         25/04/2023         CH         Green         1         Singing           137         1         25/04/2023         B.         Green         1         Singing           138         1         25/04/2023         D.         Green         1         Singing           139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Perched           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green <t< td=""><td>134</td><td>1</td><td>25/04/2023</td><td>BF</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	134	1	25/04/2023	BF	Green	1			Singing	
137         1         25/04/2023         B.         Green         1         Singing           138         1         25/04/2023         D.         Green         1         Singing           139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         SE         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Perched           148         1         27/04/2023         HS         Amber	135	1	25/04/2023	GC	Amber	1			Singing	
138         1         25/04/2023         D.         Green         1         Singing           139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           144         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         WR         Green         1         Perched           148         1         27/04/2023         SG         Amber <td< td=""><td>136</td><td>1</td><td>25/04/2023</td><td>СН</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	136	1	25/04/2023	СН	Green	1			Singing	
139         1         25/04/2023         BC         Green         1         Singing           140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         WR         Green         1         Perched           148         1         27/04/2023         HS         Amber         4         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1	137	1	25/04/2023	B.	Green	1			Singing	
140         1         25/04/2023         WR         Green         1         Singing           141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         SG         Amber         1         Perched           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green <td< td=""><td>138</td><td>1</td><td>25/04/2023</td><td>D.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	138	1	25/04/2023	D.	Green	1			Singing	
141         1         25/04/2023         GT         Green         1         Singing           142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1	139	1	25/04/2023	ВС	Green	1			Singing	
142         1         25/04/2023         ST         Green         1         Singing           143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1	140	1	25/04/2023	WR	Green	1			Singing	
143         1         25/04/2023         BZ         Green         1         Perched           144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1         Perched           154         1         27/04/2023         GT         Green         1	141	1	25/04/2023	GT	Green	1			Singing	
144         1         25/04/2023         SL         Amber         1         Flying           145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1         Perched           154         1         27/04/2023         GT         Green         1         Perched           155         1         27/04/2023         WP         Green         1	142	1	25/04/2023	ST	Green	1			Singing	
145         1         25/04/2023         TC         Green         1         Perched           146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1         Perched           154         1         27/04/2023         GT         Green         1         Perched           155         1         27/04/2023         WP         Green         1         Singing           156         1         27/04/2023         CH         Green	143	1	25/04/2023	BZ	Green	1			Perched	
146         1         25/04/2023         WR         Green         1         Singing           147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1         Perched           154         1         27/04/2023         GT         Green         1         Perched           155         1         27/04/2023         WP         Green         1         Singing           156         1         27/04/2023         CH         Green         1         Singing	144	1	25/04/2023	SL	Amber	1			Flying	
147         1         27/04/2023         HS         Amber         4         Perched           148         1         27/04/2023         SG         Amber         1         Perched           149         1         27/04/2023         Y.         Red         2         Singing           150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1         Perched           154         1         27/04/2023         GT         Green         1         Perched           155         1         27/04/2023         WP         Green         1         Singing           156         1         27/04/2023         CH         Green         1         Singing	145	1	25/04/2023	TC	Green	1			Perched	
148       1       27/04/2023       SG       Amber       1       Perched         149       1       27/04/2023       Y.       Red       2       Singing         150       1       27/04/2023       WP       Green       1       Perched         151       1       27/04/2023       R.       Green       1       Singing         152       1       27/04/2023       BT       Green       1       Perched         153       1       27/04/2023       GT       Green       1       Perched         154       1       27/04/2023       GT       Green       1       Perched         155       1       27/04/2023       WP       Green       1       Singing         156       1       27/04/2023       CH       Green       1       Singing	146	1	25/04/2023	WR	Green	1			Singing	
149       1       27/04/2023       Y.       Red       2       Singing         150       1       27/04/2023       WP       Green       1       Perched         151       1       27/04/2023       R.       Green       1       Singing         152       1       27/04/2023       BT       Green       1       Perched         153       1       27/04/2023       GT       Green       1       Perched         154       1       27/04/2023       GT       Green       1       Perched         155       1       27/04/2023       WP       Green       1       Singing         156       1       27/04/2023       CH       Green       1       Singing	147	1	27/04/2023	HS	Amber	4			Perched	
150         1         27/04/2023         WP         Green         1         Perched           151         1         27/04/2023         R.         Green         1         Singing           152         1         27/04/2023         BT         Green         1         Perched           153         1         27/04/2023         GT         Green         1         Perched           154         1         27/04/2023         GT         Green         1         Perched           155         1         27/04/2023         WP         Green         1         Singing           156         1         27/04/2023         CH         Green         1         Singing	148	1	27/04/2023	SG	Amber	1			Perched	
151       1       27/04/2023       R.       Green       1       Singing         152       1       27/04/2023       BT       Green       1       Perched         153       1       27/04/2023       GT       Green       1       Perched         154       1       27/04/2023       GT       Green       1       Perched         155       1       27/04/2023       WP       Green       1       Singing         156       1       27/04/2023       CH       Green       1       Singing	149	1	27/04/2023	Y.	Red	2			Singing	
152       1       27/04/2023       BT       Green       1       Perched         153       1       27/04/2023       GT       Green       1       Perched         154       1       27/04/2023       GT       Green       1       Perched         155       1       27/04/2023       WP       Green       1       Singing         156       1       27/04/2023       CH       Green       1       Singing	150	1	27/04/2023	WP	Green	1			Perched	
153       1       27/04/2023       GT       Green       1       Perched         154       1       27/04/2023       GT       Green       1       Perched         155       1       27/04/2023       WP       Green       1       Singing         156       1       27/04/2023       CH       Green       1       Singing	151	1	27/04/2023	R.	Green	1			Singing	
154     1     27/04/2023     GT     Green     1     Perched       155     1     27/04/2023     WP     Green     1     Singing       156     1     27/04/2023     CH     Green     1     Singing	152	1	27/04/2023	ВТ	Green	1			Perched	
155         1         27/04/2023         WP         Green         1         Singing           156         1         27/04/2023         CH         Green         1         Singing	153	1	27/04/2023	GT	Green	1			Perched	
156 1 27/04/2023 CH Green 1 Singing	154	1	27/04/2023	GT	Green	1			Perched	
	155	1	27/04/2023	WP	Green	1			Singing	
157 1 27/04/2023 WP Green 2 Perched	156	1	27/04/2023	CH	Green	1			Singing	
	157	1	27/04/2023	WP	Green	2			Perched	
158 1 27/04/2023 R. Green 1 Singing	158	1	27/04/2023	R.	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
159	1	27/04/2023	WP	Green	1			Perched	
160	1	27/04/2023	WR	Green	1			Singing	
161	1	27/04/2023	Y.	Red	1			Singing	
162	1	27/04/2023	GT	Green	1			Perched	
163	1	27/04/2023	R.	Green	1			Perched	
164	1	27/04/2023	GT	Green	1			Singing	
165	1	27/04/2023	ВС	Green	1			Singing	
166	1	27/04/2023	R.	Green	1			Singing	
167	1	27/04/2023	GC	Amber	1			Singing	
168	1	27/04/2023	ВТ	Green	1			Perched	
169	1	27/04/2023	СН	Green	1			Perched	
170	1	27/04/2023	WP	Green	1			Perched	
171	1	27/04/2023	WP	Green	1			Singing	
172	1	27/04/2023	ВС	Green	1			Singing	
173	1	27/04/2023	СН	Green	1			Perched	
174	1	27/04/2023	WR	Green	1			Singing	
175	1	27/04/2023	СН	Green	1			Singing	
176	1	27/04/2023	WP	Green	3			Perched	
177	1	27/04/2023	R.	Green	1			Singing	
178	1	27/04/2023	BF	Green	1			Perched	
179	1	27/04/2023	ВС	Green	1			Singing	
180	1	27/04/2023	ВС	Green	1			Singing	
181	1	27/04/2023	PH	NA	1			On ground	
182	1	27/04/2023	B.	Green	1			Perched	
183	1	27/04/2023	WP	Green	2			Perched	
184	1	27/04/2023	GC	Amber	1			Singing	
185	1	27/04/2023	ВС	Green	1			Singing	
186	1	27/04/2023	WR	Green	1			Singing	
187	1	27/04/2023	R.	Green	1			Perched	
188	1	27/04/2023	СН	Green	1			Perched	
189	1	27/04/2023	WW	Amber	1			Singing	
190	1	27/04/2023	GO	Green	1			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
191	1	27/04/2023	WP	Green	3			Perched	
192	1	27/04/2023	ВТ	Green	1			Perched	
193	1	27/04/2023	R.	Green	1			Perched	
194	1	27/04/2023	SH	Green	1			Perched	
195	1	27/04/2023	LI	Amber	2			Flying	Circling
196	1	27/04/2023	В.	Green	1			Singing	
197	1	27/04/2023	CH	Green	1			Singing	
198	1	27/04/2023	ВС	Green	1			Singing	
199	1	27/04/2023	WP	Green	1			Perched	
200	1	27/04/2023	B.	Green	1			Perched	
201	1	27/04/2023	СН	Green	2			Perched	
202	1	27/04/2023	D.	Green	1			Singing	
203	1	27/04/2023	Y.	Red	1			Singing	
204	1	27/04/2023	WW	Amber	1			Singing	
205	1	27/04/2023	GC	Amber	1			Singing	
206	1	27/04/2023	B.	Green	1			Singing	
207	1	27/04/2023	CH	Green	1			Perched	
208	1	27/04/2023	WR	Green	1			Perched	
209	1	27/04/2023	SW	Green	1			Singing	
210	1	27/04/2023	CH	Green	1			Singing	
211	1	27/04/2023	В.	Green	1			Perched	
212	1	27/04/2023	ВС	Green	1			Singing	
213	1	27/04/2023	CH	Green	1			Singing	
214	1	27/04/2023	R.	Green	1			Perched	
215	1	27/04/2023	WR	Green	1			Singing	
216	1	27/04/2023	GO	Green	1			Singing	
217	1	27/04/2023	WP	Green	3			Perched	
218	1	27/04/2023	ВС	Green	1			Singing	
219	1	27/04/2023	GT	Green	2			Perched	
220	1	27/04/2023	ВТ	Green	1			Perched	
221	1	27/04/2023	Y.	Red	1			Singing	
222	1	27/04/2023	R.	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
223	1	27/04/2023	WP	Green	1			Perched	
224	1	27/04/2023	WW	Amber	1			Singing	
225	1	27/04/2023	CC	Green	1			Singing	
226	1	27/04/2023	ВС	Green	1			Singing	
227	1	27/04/2023	WR	Green	1			Singing	
228	1	27/04/2023	R.	Green	1			Singing	
229	1	27/04/2023	CH	Green	1			Singing	
230	1	27/04/2023	WR	Green	1			Singing	
231	1	27/04/2023	ST	Green	1			Singing	
232	1	27/04/2023	PH	NA	1			On ground	
233	1	27/04/2023	LT	Green	2			Perched	
234	1	27/04/2023	ВТ	Green	2			Perched	
235	1	27/04/2023	GO	Green	1			Perched	
236	1	27/04/2023	CH	Green	1			Singing	
237	1	27/04/2023	ВТ	Green	1			Perched	
238	1	27/04/2023	WR	Green	1			Singing	
239	1	27/04/2023	ВС	Green	1			Singing	
240	1	27/04/2023	WP	Green	2			Perched	
241	1	27/04/2023	Y.	Red	1			Singing	
242	1	27/04/2023	CH	Green	2			Perched	
243	1	27/04/2023	R.	Green	1			Singing	
244	1	27/04/2023	ВТ	Green	1			Perched	
245	1	27/04/2023	R.	Green	1			Singing	
246	1	27/04/2023	B.	Green	1			Singing	
247	1	27/04/2023	ВС	Green	1			Singing	
248	1	27/04/2023	CH	Green	1			Perched	
249	1	27/04/2023	HC	Green	1			Perched	
250	1	27/04/2023	B.	Green	1			Perched	
251	1	27/04/2023	BF	Green	2			Singing	
252	1	27/04/2023	ВС	Green	1			Singing	
253	1	27/04/2023	GT	Green	1			Perched	
254	1	27/04/2023	R.	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
255	1	27/04/2023	WW	Amber	1			Singing	
256	1	27/04/2023	СН	Green	2			Perched	
257	1	27/04/2023	WP	Green	5			Perched	
258	1	27/04/2023	GO	Green	2			Perched	
259	1	27/04/2023	R.	Green	1			Perched	
260	1	27/04/2023	B.	Green	1			Perched	
261	1	27/04/2023	СН	Green	1			Perched	
262	1	27/04/2023	СН	Green	1			Perched	
263	1	27/04/2023	D.	Green	1			Perched	
264	1	27/04/2023	WR	Green	1			Singing	
265	1	27/04/2023	GC	Amber	1			Singing	
266	1	27/04/2023	WP	Green	1			Perched	
267	1	27/04/2023	СН	Green	1			Singing	
268	1	27/04/2023	СН	Green	1			Perched	
269	1	27/04/2023	B.	Green	1			Perched	
270	1	27/04/2023	СН	Green	1			Perched	
271	1	27/04/2023	B.	Green	1			Singing	
272	1	27/04/2023	R.	Green	1			Singing	
273	1	27/04/2023	СН	Green	2			Singing	
274	1	27/04/2023	D.	Green	1			Perched	
275	1	27/04/2023	B.	Green	1			Perched	
276	1	27/04/2023	ST	Green	1			Perched	
277	1	27/04/2023	B.	Green	1			Perched	
278	1	27/04/2023	WP	Green	2			Perched	
279	1	27/04/2023	R.	Green	1			Singing	
280	1	27/04/2023	B.	Green	1			Perched	
281	1	27/04/2023	CD	Green	1			Perched	
282	1	27/04/2023	ВТ	Green	1			Perched	
283	1	27/04/2023	B.	Green	1			Perched	
284	1	27/04/2023	CH	Green	1			Singing	
285	1	27/04/2023	ВТ	Green	1			Perched	
286	1	27/04/2023	D.	Green	1			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
287	1	27/04/2023	Y.	Red	1			Singing	
289	1	27/04/2023	Y.	Red	1			Singing	
288	2	30/05/2023	LI	Amber	5			Singing	
290	2	30/05/2023	SL	Amber	4			Flying	Circling
291	2	30/05/2023	СН	Green	1			Singing	
292	2	30/05/2023	SL	Amber	1			Flying	
293	2	30/05/2023	SG	Amber	1			Perched	
294	2	30/05/2023	R.	Green	1			Perched	
295	2	30/05/2023	СН	Green	1			Calling	
296	2	30/05/2023	R.	Green	1			Singing	
297	2	30/05/2023	GO	Green	2			Flying	
298	2	30/05/2023	SL	Amber	3			Flying	
299	2	30/05/2023	GO	Green	3			Perched	
300	2	30/05/2023	WR	Green	1			Singing	
301	2	30/05/2023	R.	Green	1			Perched	
302	2	30/05/2023	B.	Green	1			Perched	
303	2	30/05/2023	WP	Green	2			Perched	
304	2	30/05/2023	R.	Green	1			Singing	
305	2	30/05/2023	GO	Green	1			Singing	
306	2	30/05/2023	GC	Amber	1			Singing	
307	2	30/05/2023	ВС	Green	1			Singing	
308	2	30/05/2023	WR	Green	1			Singing	
309	2	30/05/2023	GC	Amber	1			Singing	
310	2	30/05/2023	R.	Green	1			Singing	
311	2	30/05/2023	KF	Amber	2			Flying	Flying up and down river, possible nest in area
312	2	30/05/2023	GO	Green	1			Singing	
313	2	30/05/2023	GT	Green	1			Singing	
314	2	30/05/2023	ВТ	Green	1			Singing	
315	2	30/05/2023	WR	Green	1			Singing	
316	2	30/05/2023	WR	Green	1			Singing	
317	2	30/05/2023	GC	Amber	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
318	2	30/05/2023	НМ	Amber	1			Flying	
319	2	30/05/2023	СН	Green	1			Singing	
320	2	30/05/2023	ВС	Green	1			Singing	
321	2	30/05/2023	B.	Green	1			Singing	
322	2	30/05/2023	BZ	Green	1			Perched	
323	2	30/05/2023	WR	Green	1			Singing	
324	2	30/05/2023	WR	Green	2			Singing	
325	2	30/05/2023	PW	Green	1			Flying	
326	2	30/05/2023	WR	Green	1			Singing	
327	2	30/05/2023	SG	Amber	3			Flying	
328	2	30/05/2023	RO	Green	6			Perched	
329	2	30/05/2023	WR	Green	1			Singing	
330	2	30/05/2023	B.	Green	1		Female	Perched	
331	2	30/05/2023	HS	Amber	1			Singing	
332	2	30/05/2023	WR	Green	1			Singing	
333	2	30/05/2023	SL	Amber	1			Flying	
334	2	30/05/2023	GR	Amber	1			Perched	
335	2	30/05/2023	R.	Green	1			Singing	
336	2	30/05/2023	RO	Green	3			Flying	
337	2	30/05/2023	ВТ	Green	1			Singing	
338	2	30/05/2023	R.	Green	1			Singing	
339	2	30/05/2023	B.	Green	1			Flying	
340	2	30/05/2023	RO	Green	1			Perched	
341	2	30/05/2023	R.	Green	1			Perched	
342	2	30/05/2023	HS	Amber	1			Perched	
343	2	30/05/2023	ВТ	Green	1			Calling	
344	2	30/05/2023	R.	Green	1			Perched	
345	2	30/05/2023	GC	Amber	1			Singing	
346	2	30/05/2023	JD	Green	1			Perched	
347	2	30/05/2023	WR	Green	1			Singing	
348	2	30/05/2023	SG	Amber	4			Perched	
349	2	30/05/2023	HC	Green	4			Perched	

	2	30/05/2023	MG					Comment
	2		IVIO	Green	1		Perched	
352		30/05/2023	СН	Green	1		Singing	
	2	30/05/2023	PH	NA	1	Male	On ground	
353	2	30/05/2023	RO	Green	50		Flying	Circling
354	2	30/05/2023	BZ	Green	1		Flying	Circling
355	2	30/05/2023	WH	Green	1		Perched	
356	2	30/05/2023	B.	Green	1		Calling	
357	2	30/05/2023	BC	Green	1		Singing	
358	2	30/05/2023	RO	Green	4		Flying	One carrying food
359	2	30/05/2023	SL	Amber	2		Flying	
360	2	30/05/2023	RO	Green	5		Perched	
361	2	30/05/2023	WR	Green	1		Singing	
362	2	30/05/2023	B.	Green	1		Perched	
363	2	30/05/2023	HS	Amber	16		Perched	
364	2	30/05/2023	GT	Green	1		Singing	
365	2	30/05/2023	HS	Amber	2		Perched	
366	2	30/05/2023	SG	Amber	60		Flying	
367	2	30/05/2023	НМ	Amber	2		Flying	
368	2	30/05/2023	B.	Green	1		Singing	
369	2	30/05/2023	GT	Green	1		Singing	
370	2	30/05/2023	ВТ	Green	1		Calling	
371	2	30/05/2023	WP	Green	2		Perched	
372	2	30/05/2023	R.	Green	1		Singing	
373	2	30/05/2023	RO	Green	3		Perched	
374	2	30/05/2023	HC	Green	2		Perched	
375	2	30/05/2023	CC	Green	1		Singing	
376	2	30/05/2023	RO	Green	1		Flying	
377	2	30/05/2023	SL	Amber	1		Flying	Circling
378	2	30/05/2023	JD	Green	2		Perched	
379	2	30/05/2023	RO	Green	1		Flying	
380	2	30/05/2023	SG	Amber	1		Perched	
381	2	30/05/2023	B.	Green	1		Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
382	2	30/05/2023	GO	Green	1			Singing	
383	2	30/05/2023	Y.	Red	1			Singing	
384	2	30/05/2023	B.	Green	1			Singing	
385	2	30/05/2023	WR	Green	1			Singing	
386	2	30/05/2023	WP	Green	1			Perched	
387	2	30/05/2023	R.	Green	1			Singing	
388	2	30/05/2023	SL	Amber	1			Flying	Circling
389	2	30/05/2023	HS	Amber	2			Perched	
390	2	30/05/2023	WR	Green	1			Singing	
391	2	30/05/2023	GO	Green	2			Perched	
392	2	30/05/2023	НМ	Amber	1			Flying	
393	2	30/05/2023	SL	Amber	1			Flying	
394	2	30/05/2023	SL	Amber	1			Flying	
395	2	30/05/2023	WR	Green	1			Singing	
396	2	30/05/2023	B.	Green	1			Flying	Carrying food
397	2	30/05/2023	B.	Green	1			Perched	
398	2	30/05/2023	B.	Green	1		Female	Perched	
399	2	30/05/2023	SL	Amber	4			Flying	Circling
400	2	30/05/2023	B.	Green	1			Singing	
401	2	30/05/2023	СН	Green	1			Singing	
402	2	30/05/2023	НМ	Amber	1			Flying	
403	2	30/05/2023	GC	Amber	1			Calling	
404	2	30/05/2023	GR	Amber	1			Singing	
405	2	30/05/2023	HC	Green	1			Flying	
406	2	30/05/2023	R.	Green	1			Perched	
407	2	30/05/2023	WP	Green	1			Perched	
408	2	30/05/2023	HS	Amber	3			Perched	
409	2	30/05/2023	GR	Amber	1			Calling	
410	2	30/05/2023	R.	Green	1			Perched	
411	2	30/05/2023	GR	Amber	1			Flying	
412	2	30/05/2023	HS	Amber	1			Singing	
413	2	30/05/2023	SG	Amber	2			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
414	2	30/05/2023	WP	Green	1			Perched	
415	2	30/05/2023	СН	Green	1			Singing	
416	2	30/05/2023	B.	Green	1			Perched	
417	2	30/05/2023	R.	Green	1			Singing	
418	2	30/05/2023	SG	Amber	40			Perched	
419	2	30/05/2023	B.	Green	1			Perched	
420	2	30/05/2023	Y.	Red	1			Perched	
421	2	30/05/2023	HS	Amber	2		Male & Female	Perched	
422	2	30/05/2023	ST	Green	1			Singing	
423	2	30/05/2023	СН	Green	1			Singing	
424	2	30/05/2023	WR	Green	1			Singing	
425	2	30/05/2023	SG	Amber	30	Adults & juveniles		Perched	Mostly juveniles
426	2	30/05/2023	SL	Amber	2			Flying	
427	2	30/05/2023	СН	Green	1			Calling	
428	2	30/05/2023	B.	Green	1			Perched	
429	2	30/05/2023	JD	Green	1			Perched	
430	2	30/05/2023	В.	Green	1			Perched	
431	2	30/05/2023	СН	Green	1		Female	Perched	
432	2	30/05/2023	Y.	Red	1			Singing	
433	2	30/05/2023	WR	Green	1			Singing	
434	2	30/05/2023	JD	Green	1			Flying	
435	2	30/05/2023	SL	Amber	1			Flying	
436	2	30/05/2023	WP	Green	1			Perched	
437	2	30/05/2023	ST	Green	1			Singing	
438	2	30/05/2023	JD	Green	2			Perched	
439	2	30/05/2023	RO	Green	5			Perched	
440	2	30/05/2023	HS	Amber	8			Perched	
441	2	30/05/2023	B.	Green	1			Perched	
442	2	30/05/2023	SL	Amber	1			Perched	
443	2	30/05/2023	RO	Green	2			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity C	omment
444	2	30/05/2023	HS	Amber	4			Perched	
445	2	30/05/2023	Y.	Red	1			Singing	
446	2	30/05/2023	SL	Amber	2			Flying	
447	2	30/05/2023	HS	Amber	2			Perched	
448	2	30/05/2023	WP	Green	2			Perched	
449	2	30/05/2023	СН	Green	1			Calling	
450	2	30/05/2023	R.	Green	1			Perched	
451	2	30/05/2023	PW	Green	1			Perched	
452	2	30/05/2023	HS	Amber	2			Perched	
453	2	30/05/2023	WR	Green	1			Singing	
454	2	30/05/2023	B.	Green	1			Calling	
455	2	30/05/2023	GC	Amber	1			Singing	
456	2	30/05/2023	GR	Amber	1			Singing	
457	2	30/05/2023	R.	Green	1			Singing	
458	2	30/05/2023	ВС	Green	1			Singing	
459	2	30/05/2023	СН	Green	1			Singing	
460	2	30/05/2023	HS	Amber	2		Male & female	Perched	
461	2	30/05/2023	RO	Green	1			Perched	
462	2	30/05/2023	WP	Green	1			Perched	
463	2	30/05/2023	B.	Green	1			Calling	
464	2	30/05/2023	SL	Amber	3			Flying	
465	2	30/05/2023	В.	Green	1			Perched	
466	2	30/05/2023	R.	Green	1			Singing	
467	2	30/05/2023	Y.	Red	1			Calling	
468	2	30/05/2023	B.	Green	1			Flying	
469	2	30/05/2023	SL	Amber	2			Flying	
470	2	30/05/2023	HG	Amber	3			Flying	
471	2	30/05/2023	B.	Green	1			Perched	
472	2	30/05/2023	SL	Amber	3			Flying	
473	2	30/05/2023	PH	NA	2		Male & female	On ground	

ID	Survey No.	Date	вто	BOCCI	No.	Age Se	ex Acti	vity Comment
474	2	30/05/2023	WP	Green	1		Perch	ned
475	2	30/05/2023	Y.	Red	1		Perch	ned
476	2	30/05/2023	GO	Green	1		Perch	ned
477	2	30/05/2023	WR	Green	1		Singi	ng
478	2	30/05/2023	HS	Amber	1		Callin	g
479	2	30/05/2023	WR	Green	1		Singi	ng
480	2	30/05/2023	GC	Amber	1		Singi	ng
481	2	30/05/2023	ST	Green	1		Singi	ng
482	2	30/05/2023	Y.	Red	1		Perch	ned
483	2	30/05/2023	SL	Amber	1		Flyinç	
484	2	30/05/2023	Y.	Red	1		Singi	ng
485	2	30/05/2023	M.	Green	1		Perch	ned
486	2	30/05/2023	BT	Green	1		Perch	ned
487	2	30/05/2023	MG	Green	1		Flying	9
488	2	30/05/2023	Y.	Red	1		Singi	ng
489	2	30/05/2023	B.	Green	1		Perch	ned
490	2	30/05/2023	PW	Green	2	Adult & juvenile	Perch	ned
491	2	30/05/2023	GC	Amber	1		Singi	ng
492	2	30/05/2023	СН	Green	1		Callin	g
493	2	30/05/2023	ВТ	Green	1		Perch	ned
494	2	30/05/2023	SL	Amber	10		Flyinç	g Circling
495	2	30/05/2023	НМ	Amber	1		Flyinç	g Circling
496	2	30/05/2023	WR	Green	1		Singi	ng
497	2	30/05/2023	B.	Green	1	Fe	emale Perch	ned
498	2	30/05/2023	R.	Green	1		Singi	ng
499	2	30/05/2023	WR	Green	1		Singi	ng
500	2	30/05/2023	GT	Green	1		Flying	
501	2	30/05/2023	СН	Green	1		Singi	ng
502	2	30/05/2023	LI	Amber	1		Perch	ned
503	2	30/05/2023	WP	Green	2		Perch	ned
504	2	30/05/2023	MG	Green	1		Perch	ned

ID	Survey No.	Date	вто	BOCCI	No.	Age S	Sex A	Activity	Comment
505	2	30/05/2023	Y.	Red	1		5	Singing	
506	2	30/05/2023	B.	Green	1		(	On ground	
507	2	30/05/2023	WR	Green	1		5	Singing	
508	2	30/05/2023	R.	Green	2		F	Perched	
509	2	30/05/2023	WP	Green	2		F	Perched	
510	2	30/05/2023	SL	Amber	1		F	Perched	
511	2	30/05/2023	ST	Green	1		5	Singing	
512	2	30/05/2023	RO	Green	4		F	Perched	
513	2	30/05/2023	JD	Green	1		F	Perched	
514	2	30/05/2023	ВТ	Green	1		F	Perched	
515	2	30/05/2023	B.	Green	1		F	Perched	
516	2	30/05/2023	WH	Green	1		5	Singing	
517	2	30/05/2023	HS	Amber	6	Adult & juveniles	F	Perched	
518	2	30/05/2023	Y.	Red	1		5	Singing	
519	2	30/05/2023	SC	Green	1		F	Perched	
520	2	30/05/2023	HS	Amber	2		F	Perched	
521	2	30/05/2023	R.	Green	1		F	Perched	
522	2	30/05/2023	WP	Green	2		F	Perched	
523	2	30/05/2023	SL	Amber	2		F	Flying	
524	2	30/05/2023	B.	Green	1		F	Perched	
525	2	30/05/2023	MG	Green	7		F	Perched	
526	2	30/05/2023	WP	Green	1		F	Perched	
527	2	30/05/2023	B.	Green	1		(	On ground	
528	2	30/05/2023	SL	Amber	1		F	Flying	
529	2	30/05/2023	HC	Green	1		F	Perched	
530	2	30/05/2023	CH	Green	2		F	Flying	
531	2	30/05/2023	WR	Green	1			Singing	
532	2	30/05/2023	R.	Green	1		F	Perched	
533	2	30/05/2023	B.	Green	4		F	Perched	
534	2	30/05/2023	D.	Green	1		5	Singing	
535	2	30/05/2023	WP	Green	1		F	Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment	
536	2	30/05/2023	R.	Green	1			Perched	
537	2	30/05/2023	B.	Green	1			Perched	
538	2	30/05/2023	СН	Green	1			Singing	
539	2	30/05/2023	WR	Green	1			Calling	
540	2	30/05/2023	ST	Green	1			Singing	
541	2	30/05/2023	GR	Amber	1			Perched	
542	2	30/05/2023	WR	Green	1			Singing	
543	2	30/05/2023	СН	Green	1			Singing	
544	2	30/05/2023	BZ	Green	1			Flying	
545	2	30/05/2023	HS	Amber	5			Perched	
546	2	30/05/2023	R.	Green	1			Singing	
547	2	30/05/2023	WR	Green	1			Singing	
548	2	30/05/2023	WP	Green	3			Perched	
549	2	30/05/2023	СН	Green	1			Calling	
550	2	30/05/2023	B.	Green	1			Perched	
551	2	30/05/2023	D.	Green	1			Calling	
552	2	30/05/2023	R.	Green	1			Singing	
553	2	30/05/2023	SL	Amber	1			Flying	
554	2	30/05/2023	WR	Green	1			Singing	
555	2	30/05/2023	B.	Green	2			Perched	
556	2	30/05/2023	GT	Green	1			Perched	
557	2	30/05/2023	WR	Green	1			Singing	
558	2	30/05/2023	D.	Green	1			Perched	
559	2	30/05/2023	LI	Amber	1			Perched	
560	2	30/05/2023	SC	Green	1		Male	Perched	
561	2	30/05/2023	WH	Green	1			Singing	
562	2	30/05/2023	WP	Green	8			On ground	
563	2	30/05/2023	HG	Amber	1			Flying	
564	2	31/05/2023	ВС	Green	1			Singing	
565	2	31/05/2023	GR	Amber	1			Singing	
566	2	31/05/2023	BF	Green	2			Perched	
567	2	31/05/2023	B.	Green	1			Perched	

688         2         31/05/2023         CH         Green         1         Singing           570         2         31/05/2023         B.         Green         1         Singing           571         2         31/05/2023         CH         Green         1         Singing           571         2         31/05/2023         CH         Green         1         Singing           572         2         31/05/2023         WR         Green         1         Singing           573         2         31/05/2023         BT         Green         1         Singing           574         2         31/05/2023         BT         Green         1         Singing           575         2         31/05/2023         B.         Green         1         Singing           576         2         31/05/2023         CH         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Singing           577         2         31/05/2023         Y.         Red         1         Singing           579         2         31/05/2023         Y.         Red         1<	ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
570         2         31/05/2023         BC         Green         1         Singing           571         2         31/05/2023         CH         Green         1         Perched           572         2         31/05/2023         BC         Green         1         Singing           573         2         31/05/2023         WR         Green         1         Singing           574         2         31/05/2023         BT         Green         1         Singing           575         2         31/05/2023         D.         Green         1         Singing           576         2         31/05/2023         D.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Singing           579         2         31/05/2023         Y.         Red         1         Singing           581         2         31/05/2023         Y.         Red         1         Singing           582         2         31/05/2023         R.         Green         1<	568	2	31/05/2023	СН	Green	1			Singing	
571         2         31/05/2023         CH         Green         1         Perched           572         2         31/05/2023         BC         Green         1         Singing           573         2         31/05/2023         WR         Green         1         Singing           574         2         31/05/2023         BT         Green         1         Perched           576         2         31/05/2023         D.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Singing           579         2         31/05/2023         CT         Green         1         Singing           681         2         31/05/2023         W         Green         1         Singing           582         2         31/05/2023         R.         Green         1         Singing           583         2         31/05/2023         R.         Green <td< td=""><td>569</td><td>2</td><td>31/05/2023</td><td>B.</td><td>Green</td><td>1</td><td></td><td></td><td>Perched</td><td></td></td<>	569	2	31/05/2023	B.	Green	1			Perched	
572         2         31/05/2023         BC         Green         1         Singing           573         2         31/05/2023         WR         Green         1         Binging           574         2         31/05/2023         BT         Green         1         Perched           575         2         31/05/2023         D.         Green         1         Singing           576         2         31/05/2023         B.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Perched           579         2         31/05/2023         CT         Green         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         B.         Green <t< td=""><td>570</td><td>2</td><td>31/05/2023</td><td>BC</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	570	2	31/05/2023	BC	Green	1			Singing	
573         2         31/05/2023         WR         Green         1         Singing           574         2         31/05/2023         BT         Green         1         Perched           575         2         31/05/2023         D.         Green         1         Singing           576         2         31/05/2023         B.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Perched           578         2         31/05/2023         CT         Green         1         Perched           579         2         31/05/2023         Y.         Red         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         R.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           586         2         31/05/2023         R.         Green	571	2	31/05/2023	СН	Green	1			Perched	
574         2         31/05/2023         BT         Green         1         Perchad           575         2         31/05/2023         D.         Green         1         Singing           576         2         31/05/2023         B.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Perchad           578         2         31/05/2023         CT         Green         1         Perchad           579         2         31/05/2023         Y.         Red         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         WP         Green         1         Singing           582         2         31/05/2023         R.         Green         1         Singing           583         2         31/05/2023         R.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           586         2         31/05/2023         R.         Green	572	2	31/05/2023	BC	Green	1			Singing	
575         2         31/05/2023         D.         Green         1         Singing           576         2         31/05/2023         B.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Perched           579         2         31/05/2023         WP         Green         1         Singing           580         2         31/05/2023         R.         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         GT         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         R.         Green         1         Perched           587         2         31/05/2023         R.         Green <t< td=""><td>573</td><td>2</td><td>31/05/2023</td><td>WR</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	573	2	31/05/2023	WR	Green	1			Singing	
576         2         31/05/2023         B.         Green         1         Singing           577         2         31/05/2023         CH         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Perched           579         2         31/05/2023         Y.         Red         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         B.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         B.         Green	574	2	31/05/2023	ВТ	Green	1			Perched	
577         2         31/05/2023         CH         Green         1         Singing           578         2         31/05/2023         CT         Green         1         Perched           579         2         31/05/2023         Y.         Red         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         GT         Green         1         Singing           583         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         R.         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green	575	2	31/05/2023	D.	Green	1			Singing	
578         2         31/05/2023         CT         Green         1         Perched           579         2         31/05/2023         Y.         Red         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         R.         Green         1         Singing           583         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         R.         Green         1         Singing           586         2         31/05/2023         WR         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         R.         Green         1         Perched           589         2         31/05/2023         B.         Green	576	2	31/05/2023	B.	Green	1			Singing	
579         2         31/05/2023         Y.         Red         1         Singing           580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         B.         Green         1         Singing           583         2         31/05/2023         R.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         B.         Green         1         Perched           590         2         31/05/2023         B.         Green	577	2	31/05/2023	СН	Green	1			Singing	
580         2         31/05/2023         WP         Green         1         Singing           581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         GT         Green         1         Singing           583         2         31/05/2023         R.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         B.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         GT         Green <t< td=""><td>578</td><td>2</td><td>31/05/2023</td><td>СТ</td><td>Green</td><td>1</td><td></td><td></td><td>Perched</td><td></td></t<>	578	2	31/05/2023	СТ	Green	1			Perched	
581         2         31/05/2023         R.         Green         1         Singing           582         2         31/05/2023         GT         Green         1         Singing           583         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Perched           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green <t< td=""><td>579</td><td>2</td><td>31/05/2023</td><td>Y.</td><td>Red</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	579	2	31/05/2023	Y.	Red	1			Singing	
582         2         31/05/2023         GT         Green         1         Singing           583         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green <t< td=""><td>580</td><td>2</td><td>31/05/2023</td><td>WP</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	580	2	31/05/2023	WP	Green	1			Singing	
583         2         31/05/2023         B.         Green         1         Singing           584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green         1         Singing           594         2         31/05/2023         BC         Green <t< td=""><td>581</td><td>2</td><td>31/05/2023</td><td>R.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	581	2	31/05/2023	R.	Green	1			Singing	
584         2         31/05/2023         R.         Green         1         Singing           585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green         1         Singing           594         2         31/05/2023         BC         Green         1         Singing           595         2         31/05/2023         GT         Green <t< td=""><td>582</td><td>2</td><td>31/05/2023</td><td>GT</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	582	2	31/05/2023	GT	Green	1			Singing	
585         2         31/05/2023         WR         Green         1         Singing           586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green         1         Singing           594         2         31/05/2023         BC         Green         1         Singing           595         2         31/05/2023         CH         Green         1         Singing           596         2         31/05/2023         GT         Green <t< td=""><td>583</td><td>2</td><td>31/05/2023</td><td>B.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	583	2	31/05/2023	B.	Green	1			Singing	
586         2         31/05/2023         BT         Green         1         Perched           587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green         1         Singing           594         2         31/05/2023         BC         Green         1         Singing           595         2         31/05/2023         CH         Green         1         Singing           596         2         31/05/2023         GT         Green         1         Singing           597         2         31/05/2023         BC         Green <t< td=""><td>584</td><td>2</td><td>31/05/2023</td><td>R.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	584	2	31/05/2023	R.	Green	1			Singing	
587         2         31/05/2023         R.         Green         1         Perched           588         2         31/05/2023         B.         Green         1         Perched           589         2         31/05/2023         JD         Green         1         Perched           590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green         1         Singing           594         2         31/05/2023         BC         Green         1         Singing           595         2         31/05/2023         GT         Green         1         Singing           596         2         31/05/2023         GT         Green         1         Singing           597         2         31/05/2023         BC         Green         1         Singing           598         2         31/05/2023         WR         Green <t< td=""><td>585</td><td>2</td><td>31/05/2023</td><td>WR</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	585	2	31/05/2023	WR	Green	1			Singing	
588       2       31/05/2023       B.       Green       1       Perched         589       2       31/05/2023       JD       Green       1       Perched         590       2       31/05/2023       B.       Green       1       Perched         591       2       31/05/2023       WW       Amber       1       Singing         592       2       31/05/2023       GT       Green       1       Perched         593       2       31/05/2023       R.       Green       1       Singing         594       2       31/05/2023       BC       Green       1       Singing         595       2       31/05/2023       CH       Green       1       Singing         596       2       31/05/2023       GT       Green       1       Singing         597       2       31/05/2023       BC       Green       1       Singing         598       2       31/05/2023       WR       Green       1       Singing	586	2	31/05/2023	ВТ	Green	1			Perched	
589       2       31/05/2023       JD       Green       1       Perched         590       2       31/05/2023       B.       Green       1       Perched         591       2       31/05/2023       WW       Amber       1       Singing         592       2       31/05/2023       GT       Green       1       Perched         593       2       31/05/2023       R.       Green       1       Singing         594       2       31/05/2023       BC       Green       1       Singing         595       2       31/05/2023       CH       Green       1       Singing         596       2       31/05/2023       GT       Green       1       Singing         597       2       31/05/2023       BC       Green       1       Singing         598       2       31/05/2023       WR       Green       1       Singing	587	2	31/05/2023	R.	Green	1			Perched	
590         2         31/05/2023         B.         Green         1         Perched           591         2         31/05/2023         WW         Amber         1         Singing           592         2         31/05/2023         GT         Green         1         Perched           593         2         31/05/2023         R.         Green         1         Singing           594         2         31/05/2023         BC         Green         1         Singing           595         2         31/05/2023         CH         Green         1         Singing           596         2         31/05/2023         GT         Green         1         Singing           597         2         31/05/2023         BC         Green         1         Singing           598         2         31/05/2023         WR         Green         1         Singing	588	2	31/05/2023	В.	Green	1			Perched	
591       2       31/05/2023       WW       Amber       1       Singing         592       2       31/05/2023       GT       Green       1       Perched         593       2       31/05/2023       R.       Green       1       Singing         594       2       31/05/2023       BC       Green       1       Singing         595       2       31/05/2023       CH       Green       1       Singing         596       2       31/05/2023       GT       Green       1       Singing         597       2       31/05/2023       BC       Green       1       Singing         598       2       31/05/2023       WR       Green       1       Singing	589	2	31/05/2023	JD	Green	1			Perched	
592       2       31/05/2023       GT       Green       1       Perched         593       2       31/05/2023       R.       Green       1       Singing         594       2       31/05/2023       BC       Green       1       Singing         595       2       31/05/2023       CH       Green       1       Singing         596       2       31/05/2023       GT       Green       1       Singing         597       2       31/05/2023       BC       Green       1       Singing         598       2       31/05/2023       WR       Green       1       Singing	590	2	31/05/2023	B.	Green	1			Perched	
593       2       31/05/2023       R.       Green       1       Singing         594       2       31/05/2023       BC       Green       1       Singing         595       2       31/05/2023       CH       Green       1       Singing         596       2       31/05/2023       GT       Green       1       Singing         597       2       31/05/2023       BC       Green       1       Singing         598       2       31/05/2023       WR       Green       1       Singing	591	2	31/05/2023	WW	Amber	1			Singing	
594         2         31/05/2023         BC         Green         1         Singing           595         2         31/05/2023         CH         Green         1         Singing           596         2         31/05/2023         GT         Green         1         Singing           597         2         31/05/2023         BC         Green         1         Singing           598         2         31/05/2023         WR         Green         1         Singing	592	2	31/05/2023	GT	Green	1			Perched	
595         2         31/05/2023         CH         Green         1         Singing           596         2         31/05/2023         GT         Green         1         Singing           597         2         31/05/2023         BC         Green         1         Singing           598         2         31/05/2023         WR         Green         1         Singing	593	2	31/05/2023	R.	Green	1			Singing	
596         2         31/05/2023         GT         Green         1         Singing           597         2         31/05/2023         BC         Green         1         Singing           598         2         31/05/2023         WR         Green         1         Singing	594	2	31/05/2023	ВС	Green	1			Singing	
597         2         31/05/2023         BC         Green         1         Singing           598         2         31/05/2023         WR         Green         1         Singing	595	2	31/05/2023	СН	Green	1			Singing	
598 2 31/05/2023 WR Green 1 Singing	596	2	31/05/2023	GT	Green	1			Singing	
	597	2	31/05/2023	ВС	Green	1			Singing	
599 2 31/05/2023 BT Green 2 Perched	598	2	31/05/2023	WR	Green	1			Singing	
	599	2	31/05/2023	BT	Green	2			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment
600	2	31/05/2023	R.	Green	1			Perched
601	2	31/05/2023	D.	Green	1			Singing
602	2	31/05/2023	WP	Green	1			Perched
603	2	31/05/2023	CH	Green	1			Singing
604	2	31/05/2023	R.	Green	1			Perched
605	2	31/05/2023	CC	Green	1			Singing
606	2	31/05/2023	BF	Green	1			Perched
607	2	31/05/2023	GT	Green	1			Perched
608	2	31/05/2023	B.	Green	2			Perched
609	2	31/05/2023	R.	Green	1			Perched
610	2	31/05/2023	WR	Green	1			Singing
611	2	31/05/2023	CH	Green	1			Singing
612	2	31/05/2023	B.	Green	1			Perched
613	2	31/05/2023	WP	Green	1			Perched
614	2	31/05/2023	JD	Green	1			On ground
615	2	31/05/2023	RO	Green	19			On ground
616	2	31/05/2023	CH	Green	1			Singing
617	2	31/05/2023	R.	Green	1			Singing
618	2	31/05/2023	WR	Green	1			Singing
619	2	31/05/2023	ВТ	Green	1			Singing
620	2	31/05/2023	WR	Green	1			Singing
621	2	31/05/2023	SW	Green	1			Singing
622	2	31/05/2023	ST	Green	1			Singing
623	2	31/05/2023	ВС	Green	1			Singing
624	2	31/05/2023	ВС	Green	1			Singing
625	2	31/05/2023	GT	Green	1			Perched
626	2	31/05/2023	R.	Green	1			Perched
627	2	31/05/2023	ВТ	Green	2			Perched
628	2	31/05/2023	В.	Green	1			Perched
629	2	31/05/2023	WR	Green	1			Singing
630	2	31/05/2023	CH	Green	2			Perched
631	2	31/05/2023	GT	Green	2			Perched

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
632	2	31/05/2023	WR	Green	1			Singing	
633	2	31/05/2023	WP	Green	2			Perched	
634	2	31/05/2023	CC	Green	1			Perched	
635	2	31/05/2023	CA	Amber	1			Perched	
636	2	31/05/2023	СН	Green	1			Singing	
637	2	31/05/2023	MG	Green	1			Singing	
638	2	31/05/2023	ВС	Green	1			Singing	
639	2	31/05/2023	WP	Green	2			Perched	
640	2	31/05/2023	WR	Green	1			Singing	
641	2	31/05/2023	B.	Green	1			Singing	
642	2	31/05/2023	D.	Green	1			Singing	
643	2	31/05/2023	BF	Green	1			Calling	
644	2	31/05/2023	BF	Green	1			Calling	
645	2	31/05/2023	СН	Green	1			Singing	
646	2	31/05/2023	D.	Green	1			Flying	
647	2	31/05/2023	B.	Green	1			Calling	
648	2	31/05/2023	GC	Amber	1			Singing	
649	2	31/05/2023	СН	Green	1			Calling	
650	2	31/05/2023	СН	Green	1			Singing	
651	2	31/05/2023	R.	Green	1			Singing	
652	2	31/05/2023	B.	Green	1			Calling	
653	2	31/05/2023	GO	Green	1			Singing	
654	2	31/05/2023	СН	Green	1			Singing	
655	2	31/05/2023	НМ	Amber	2			Flying	
656	2	31/05/2023	СН	Green	1			Calling	
657	2	31/05/2023	СН	Green	1			Singing	
658	2	31/05/2023	R.	Green	1			Singing	
659	2	31/05/2023	GC	Amber	1			Singing	
660	2	31/05/2023	R.	Green	1			Singing	
661	2	31/05/2023	WP	Green	1			Perched	
662	2	31/05/2023	WP	Green	1			Perched	
663	2	31/05/2023	R.	Green	1			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
664	2	31/05/2023	Y.	Red	1			Singing	
665	2	31/05/2023	RO	Green	2			Flying	
666	2	31/05/2023	SG	Amber	4			Flying	
667	2	31/05/2023	WP	Green	5			Flying	
668	2	31/05/2023	RO	Green	2			Flying	
669	2	31/05/2023	SL	Amber	2			Flying	
670	2	31/05/2023	НМ	Amber	2			Flying	
671	2	31/05/2023	R.	Green	1			Singing	
672	2	31/05/2023	GT	Green	1			Singing	
673	2	31/05/2023	R.	Green	1			Singing	
674	2	31/05/2023	Y.	Red	1			Perched	
675	2	31/05/2023	СН	Green	1			Singing	
676	2	31/05/2023	CH	Green	1			Singing	
677	2	31/05/2023	WR	Green	1			Singing	
678	2	31/05/2023	RO	Green	2			Flying	
679	2	31/05/2023	WR	Green	1			Singing	
680	2	31/05/2023	BC	Green	1			Singing	
681	2	31/05/2023	GC	Amber	1			Singing	
682	2	31/05/2023	WR	Green	1			Singing	
683	2	31/05/2023	WR	Green	1			Singing	
684	2	31/05/2023	WP	Green	1			Flying	
685	2	31/05/2023	Y.	Red	1			Singing	
686	2	31/05/2023	B.	Green	1			Calling	
687	2	31/05/2023	WR	Green	1			Singing	
688	2	31/05/2023	WR	Green	1			Singing	
689	2	31/05/2023	R.	Green	1			Singing	
690	2	31/05/2023	СН	Green	1			Singing	
691	2	31/05/2023	B.	Green	1			Calling	
692	2	31/05/2023	СН	Green	1			Calling	
693	2	31/05/2023	R.	Green	1			Singing	
694	2	31/05/2023	WR	Green	1			Singing	
695	2	31/05/2023	RO	Green	1			Flying	

888         2         31/05/2023         CH         Green         1         Singing           697         2         31/05/2023         R.         Green         1         Singing           688         2         31/05/2023         R.         Green         2         Flying           689         2         31/05/2023         R.         Green         1         Singing           701         2         31/05/2023         R.         Green         1         Singing           702         2         31/05/2023         R.         Green         1         Calling           702         2         31/05/2023         CH         Green         1         Calling           703         2         31/05/2023         B.         Green         1         Calling           704         2         31/05/2023         W.R         Green         1         Calling           705         2         31/05/2023         W.R         Green         1         Perched           707         2         31/05/2023         W.R         Green         1         Perched           709         2         31/05/2023         B.         Green	ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
698         2         31/05/2023         GT         Green         1         Singing           699         2         31/05/2023         RO         Green         2         Flying           700         2         31/05/2023         RC         Green         1         Singing           701         2         31/05/2023         R.         Green         1         Calling           702         2         31/05/2023         HC         Green         1         Calling           703         2         31/05/2023         HC         Green         1         Calling           704         2         31/05/2023         WR         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Perched           707         2         31/05/2023         WR         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         B.         Green <td< td=""><td>696</td><td>2</td><td>31/05/2023</td><td>СН</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	696	2	31/05/2023	СН	Green	1			Singing	
699         2         31/05/2023         RO         Green         2         Flying           700         2         31/05/2023         BC         Green         1         Singing           701         2         31/05/2023         R.         Green         1         Singing           702         2         31/05/2023         CH         Green         1         Calling           703         2         31/05/2023         HC         Green         1         Calling           704         2         31/05/2023         B.         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Singing           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         B.         Green <td< td=""><td>697</td><td>2</td><td>31/05/2023</td><td>R.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	697	2	31/05/2023	R.	Green	1			Singing	
700         2         31/05/2023         BC         Green         1         Singing           701         2         31/05/2023         R.         Green         1         Singing           702         2         31/05/2023         CH         Green         1         Calling           703         2         31/05/2023         HC         Green         1         Flying           704         2         31/05/2023         B.         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Singing           707         2         31/05/2023         WR         Green         1         Perched           708         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         CH         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         R.         Green <td< td=""><td>698</td><td>2</td><td>31/05/2023</td><td>GT</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	698	2	31/05/2023	GT	Green	1			Singing	
701         2         31/05/2023         R.         Green         1         Singing           702         2         31/05/2023         CH         Green         1         Calling           703         2         31/05/2023         HC         Green         1         Flying           704         2         31/05/2023         HC         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         BC         Green         1         Singing           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         BC         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green <td< td=""><td>699</td><td>2</td><td>31/05/2023</td><td>RO</td><td>Green</td><td>2</td><td></td><td></td><td>Flying</td><td></td></td<>	699	2	31/05/2023	RO	Green	2			Flying	
702         2         31/05/2023         CH         Green         1         Calling           703         2         31/05/2023         HC         Green         1         Flying           704         2         31/05/2023         B.         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Singing           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         CH         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green <td< td=""><td>700</td><td>2</td><td>31/05/2023</td><td>ВС</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	700	2	31/05/2023	ВС	Green	1			Singing	
703         2         31/05/2023         HC         Green         1         Flying           704         2         31/05/2023         B.         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Perched           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         CH         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         B.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         2         Perched           714         2         31/05/2023         R.         Green <td< td=""><td>701</td><td>2</td><td>31/05/2023</td><td>R.</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></td<>	701	2	31/05/2023	R.	Green	1			Singing	
704         2         31/05/2023         B.         Green         1         Calling           705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Singing           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         BC         Green         1         Perched           709         2         31/05/2023         BC         Green         1         Perched           710         2         31/05/2023         BC         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green <t< td=""><td>702</td><td>2</td><td>31/05/2023</td><td>СН</td><td>Green</td><td>1</td><td></td><td></td><td>Calling</td><td></td></t<>	702	2	31/05/2023	СН	Green	1			Calling	
705         2         31/05/2023         WR         Green         1         Singing           706         2         31/05/2023         WR         Green         1         Singing           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         CH         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         R.         Green         2         Perched           714         2         31/05/2023         ST         Green         1         Perched           715         2         31/05/2023         WP         Green <t< td=""><td>703</td><td>2</td><td>31/05/2023</td><td>HC</td><td>Green</td><td>1</td><td></td><td></td><td>Flying</td><td></td></t<>	703	2	31/05/2023	HC	Green	1			Flying	
706         2         31/05/2023         WR         Green         1         Singing           707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         CH         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         2         Perched           713         2         31/05/2023         R.         Green         1         Perched           714         2         31/05/2023         R.         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         R.         Green <t< td=""><td>704</td><td>2</td><td>31/05/2023</td><td>B.</td><td>Green</td><td>1</td><td></td><td></td><td>Calling</td><td></td></t<>	704	2	31/05/2023	B.	Green	1			Calling	
707         2         31/05/2023         BC         Green         1         Perched           708         2         31/05/2023         CH         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         B.         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         R.         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         B.         Green         1         Perched           718         2         31/05/2023         R.         Green <t< td=""><td>705</td><td>2</td><td>31/05/2023</td><td>WR</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	705	2	31/05/2023	WR	Green	1			Singing	
708         2         31/05/2023         CH         Green         1         Perched           709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         BC         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         CH         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           720         2         31/05/2023         B.         Green <t< td=""><td>706</td><td>2</td><td>31/05/2023</td><td>WR</td><td>Green</td><td>1</td><td></td><td></td><td>Singing</td><td></td></t<>	706	2	31/05/2023	WR	Green	1			Singing	
709         2         31/05/2023         B.         Green         1         Perched           710         2         31/05/2023         BC         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         CH         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           720         2         31/05/2023         R.         Green         1         Perched           721         2         31/05/2023         B.         Green <t< td=""><td>707</td><td>2</td><td>31/05/2023</td><td>ВС</td><td>Green</td><td>1</td><td></td><td></td><td>Perched</td><td></td></t<>	707	2	31/05/2023	ВС	Green	1			Perched	
710         2         31/05/2023         BC         Green         1         Perched           711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         CH         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         WP         Green <t< td=""><td>708</td><td>2</td><td>31/05/2023</td><td>СН</td><td>Green</td><td>1</td><td></td><td></td><td>Perched</td><td></td></t<>	708	2	31/05/2023	СН	Green	1			Perched	
711         2         31/05/2023         R.         Green         1         Perched           712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         CH         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green <t< td=""><td>709</td><td>2</td><td>31/05/2023</td><td>B.</td><td>Green</td><td>1</td><td></td><td></td><td>Perched</td><td></td></t<>	709	2	31/05/2023	B.	Green	1			Perched	
712         2         31/05/2023         R.         Green         1         Perched           713         2         31/05/2023         CH         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green         1         Perched           724         2         31/05/2023         Y.         Red	710	2	31/05/2023	ВС	Green	1			Perched	
713         2         31/05/2023         CH         Green         2         Perched           714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green         1         Perched           723         2         31/05/2023         Y.         Red         1         Perched           724         2         31/05/2023         GC         Amber	711	2	31/05/2023	R.	Green	1			Perched	
714         2         31/05/2023         R.         Green         1         Perched           715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green         1         Perched           723         2         31/05/2023         Y.         Red         1         Perched           724         2         31/05/2023         GC         Amber         1         Perched           725         2         31/05/2023         CH         Green	712	2	31/05/2023	R.	Green	1			Perched	
715         2         31/05/2023         ST         Green         1         Perched           716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green         1         Perched           723         2         31/05/2023         Y.         Red         1         Perched           724         2         31/05/2023         GC         Amber         1         Perched           725         2         31/05/2023         CH         Green         1         Perched           726         2         31/05/2023         WW         Amber	713	2	31/05/2023	СН	Green	2			Perched	
716         2         31/05/2023         WP         Green         1         Perched           717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green         1         Perched           723         2         31/05/2023         Y.         Red         1         Perched           724         2         31/05/2023         GC         Amber         1         Perched           725         2         31/05/2023         CH         Green         1         Perched           726         2         31/05/2023         WW         Amber         1         Perched	714	2	31/05/2023	R.	Green	1			Perched	
717         2         31/05/2023         CH         Green         1         Perched           718         2         31/05/2023         B.         Green         1         Perched           719         2         31/05/2023         R.         Green         1         Perched           720         2         31/05/2023         B.         Green         1         Perched           721         2         31/05/2023         B.         Green         1         Perched           722         2         31/05/2023         WP         Green         1         Perched           723         2         31/05/2023         Y.         Red         1         Perched           724         2         31/05/2023         GC         Amber         1         Perched           725         2         31/05/2023         CH         Green         1         Perched           726         2         31/05/2023         WW         Amber         1         Perched	715	2	31/05/2023	ST	Green	1			Perched	
718       2       31/05/2023       B.       Green       1       Perched         719       2       31/05/2023       R.       Green       1       Perched         720       2       31/05/2023       B.       Green       1       Perched         721       2       31/05/2023       B.       Green       1       Perched         722       2       31/05/2023       WP       Green       1       Perched         723       2       31/05/2023       Y.       Red       1       Perched         724       2       31/05/2023       GC       Amber       1       Perched         725       2       31/05/2023       CH       Green       1       Perched         726       2       31/05/2023       WW       Amber       1       Perched	716	2	31/05/2023	WP	Green	1			Perched	
719       2       31/05/2023       R.       Green       1       Perched         720       2       31/05/2023       B.       Green       1       Perched         721       2       31/05/2023       B.       Green       1       Perched         722       2       31/05/2023       WP       Green       1       Perched         723       2       31/05/2023       Y.       Red       1       Perched         724       2       31/05/2023       GC       Amber       1       Perched         725       2       31/05/2023       CH       Green       1       Perched         726       2       31/05/2023       WW       Amber       1       Perched	717	2	31/05/2023	СН	Green	1			Perched	
720       2       31/05/2023       B.       Green       1       Perched         721       2       31/05/2023       B.       Green       1       Perched         722       2       31/05/2023       WP       Green       1       Perched         723       2       31/05/2023       Y.       Red       1       Perched         724       2       31/05/2023       GC       Amber       1       Perched         725       2       31/05/2023       CH       Green       1       Perched         726       2       31/05/2023       WW       Amber       1       Perched	718	2	31/05/2023	B.	Green	1			Perched	
721       2       31/05/2023       B.       Green       1       Perched         722       2       31/05/2023       WP       Green       1       Perched         723       2       31/05/2023       Y.       Red       1       Perched         724       2       31/05/2023       GC       Amber       1       Perched         725       2       31/05/2023       CH       Green       1       Perched         726       2       31/05/2023       WW       Amber       1       Perched	719	2	31/05/2023	R.	Green	1			Perched	
722       2       31/05/2023       WP       Green       1       Perched         723       2       31/05/2023       Y.       Red       1       Perched         724       2       31/05/2023       GC       Amber       1       Perched         725       2       31/05/2023       CH       Green       1       Perched         726       2       31/05/2023       WW       Amber       1       Perched	720	2	31/05/2023	B.	Green	1			Perched	
723       2       31/05/2023       Y.       Red       1       Perched         724       2       31/05/2023       GC       Amber       1       Perched         725       2       31/05/2023       CH       Green       1       Perched         726       2       31/05/2023       WW       Amber       1       Perched	721	2	31/05/2023	B.	Green	1			Perched	
724         2         31/05/2023         GC         Amber         1         Perched           725         2         31/05/2023         CH         Green         1         Perched           726         2         31/05/2023         WW         Amber         1         Perched	722	2	31/05/2023	WP	Green	1			Perched	
725         2         31/05/2023         CH         Green         1         Perched           726         2         31/05/2023         WW         Amber         1         Perched	723	2	31/05/2023	Υ.	Red	1			Perched	
726 2 31/05/2023 WW Amber 1 Perched	724	2	31/05/2023	GC	Amber	1			Perched	
	725	2	31/05/2023	СН	Green	1			Perched	
727 2 31/05/2023 WP Green 1 Perched	726	2	31/05/2023	WW	Amber	1			Perched	
	727	2	31/05/2023	WP	Green	1			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment
728	2	31/05/2023	B.	Green	1			Perched
729	2	31/05/2023	WR	Green	1			Perched
730	2	31/05/2023	Y.	Red	1			Perched
731	2	31/05/2023	R.	Green	1			Perched
732	2	31/05/2023	СН	Green	1			Perched
733	2	31/05/2023	WR	Green	1			Perched
734	2	31/05/2023	WP	Green	1			Perched
735	2	31/05/2023	WR	Green	1			Perched
736	2	31/05/2023	R.	Green	1			Perched
737	2	31/05/2023	СН	Green	1			Perched
738	2	31/05/2023	В.	Green	1			Perched
739	2	31/05/2023	WR	Green	1			Perched
740	2	31/05/2023	R.	Green	1			Perched
741	2	31/05/2023	ST	Green	1			Perched
742	2	31/05/2023	В.	Green	1			Perched
743	2	31/05/2023	B.	Green	1			Perched
744	2	31/05/2023	WR	Green	1			Perched
745	2	31/05/2023	Y.	Red	1			Perched
746	2	31/05/2023	В.	Green	1			On ground
747	2	31/05/2023	WP	Green	1			On ground
748	2	31/05/2023	ST	Green	1			Perched
749	2	31/05/2023	WR	Green	1			Perched
750	2	31/05/2023	Υ.	Red	1			Perched
751	2	31/05/2023	СН	Green	1			Perched
752	2	31/05/2023	СН	Green	1			Perched
753	2	31/05/2023	B.	Green	1			Perched
754	2	31/05/2023	В.	Green	1			Perched
755	2	31/05/2023	ВС	Green	1			Perched
756	2	31/05/2023	В.	Green	1			Perched
757	2	31/05/2023	JD	Green	1			On ground
758	2	31/05/2023	CH	Green	1			Perched
759	2	31/05/2023	R.	Green	1			Perched

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment
760	2	31/05/2023	WR	Green	1			Perched
761	2	31/05/2023	WP	Green	1			Perched
762	2	31/05/2023	R.	Green	1			Perched
763	2	31/05/2023	RO	Green	1			On ground
764	2	31/05/2023	B.	Green	1			Perched
765	2	31/05/2023	GO	Green	2			On ground
766	2	31/05/2023	Y.	Red	2			Perched
767	2	31/05/2023	ВТ	Green	1			Perched
768	2	31/05/2023	GT	Green	1			Perched
769	2	31/05/2023	D.	Green	1			On ground
770	2	31/05/2023	В.	Green	1			On ground
771	2	31/05/2023	R.	Green	1			Perched
772	2	31/05/2023	B.	Green	1			Perched
773	2	31/05/2023	SL	Amber	4			On ground
774	2	31/05/2023	WP	Green	1			On ground
775	2	31/05/2023	SL	Amber	1			On ground
776	2	31/05/2023	BZ	Green	1			Perched
777	2	31/05/2023	WP	Green	1			Perched
778	2	31/05/2023	GO	Green	1			Perched
779	2	31/05/2023	Y.	Red	1			Perched
780	2	31/05/2023	СН	Green	1			Perched
781	2	31/05/2023	ST	Green	1			Perched
782	2	31/05/2023	WR	Green	1			Perched
783	2	31/05/2023	B.	Green	2			Perched
784	2	31/05/2023	WP	Green	1			On ground
785	2	31/05/2023	JD	Green	1			On ground
786	2	31/05/2023	WR	Green	1			Perched
787	2	31/05/2023	R.	Green	1			Perched
788	2	31/05/2023	ST	Green	1			Perched
789	2	31/05/2023	Y.	Red	1			Perched
790	2	31/05/2023	WR	Green	1			Perched
791	2	31/05/2023	вс	Green	1			Perched

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment
792	2	31/05/2023	WP	Green	1			Perched
793	2	31/05/2023	BC	Green	1			Perched
794	2	31/05/2023	R.	Green	1			Perched
795	2	31/05/2023	СН	Green	1			Perched
796	2	31/05/2023	BC	Green	1			Perched
797	2	31/05/2023	СН	Green	1			Perched
798	2	31/05/2023	B.	Green	1			Perched
799	2	31/05/2023	СН	Green	1			Perched
800	2	31/05/2023	ВТ	Green	1			Perched
801	2	31/05/2023	SC	Green	1			On ground
802	2	31/05/2023	СН	Green	1			Perched
803	2	31/05/2023	ST	Green	1			Perched
804	2	31/05/2023	RO	Green	1			On ground
805	2	31/05/2023	R.	Green	1			Perched
806	2	31/05/2023	GO	Green	1			On ground
807	2	31/05/2023	СН	Green	2			Perched
808	2	31/05/2023	СН	Green	1			Perched
809	2	31/05/2023	WR	Green	1			Perched
810	2	31/05/2023	Y.	Red	1			Perched
811	2	31/05/2023	R.	Green	2			Perched
812	2	31/05/2023	СН	Green	1			Perched
813	2	31/05/2023	В.	Green	1			Perched
814	2	31/05/2023	СН	Green	2			Perched
815	2	31/05/2023	СН	Green	1			Perched
816	2	31/05/2023	B.	Green	1			Perched
817	2	31/05/2023	СН	Green	1			Perched
818	2	31/05/2023	WR	Green	1			Perched
819	2	31/05/2023	Y.	Red	1			Perched
820	2	31/05/2023	MG	Green	1			Perched
821	2	31/05/2023	СН	Green	1			Perched
822	2	31/05/2023	B.	Green	1			Perched
823	2	31/05/2023	B.	Green	1			Perched

824     2       825     2       826     2       827     2       828     2       829     2       830     2	31/05/2023 31/05/2023 31/05/2023 31/05/2023	CH R. B.	Green Green	2		Perched	
826     2       827     2       828     2       829     2       830     2	31/05/2023		Green				
827     2       828     2       829     2       830     2		В.		1		Perched	
828     2       829     2       830     2	31/05/2023		Green	1		Perched	
829 2 830 2		WR	Green	1		Perched	
830 2	31/05/2023	R.	Green	1		Perched	
	31/05/2023	СН	Green	1		Perched	
	31/05/2023	GO	Green	2		On ground	
831 2	31/05/2023	WR	Green	1		Perched	
832 2	31/05/2023	СН	Green	1		Perched	
833 2	31/05/2023	WR	Green	1		Perched	
834 2	31/05/2023	Y.	Red	1		Perched	
835 2	31/05/2023	B.	Green	2		On ground	
836 2	31/05/2023	WR	Green	1		Perched	
837 2	31/05/2023	СН	Green	2		Perched	
838 2	31/05/2023	R.	Green	1		Perched	
839 2	31/05/2023	GC	Amber	1		Perched	
840 2	31/05/2023	R.	Green	1		Perched	
841 2	31/05/2023	GC	Amber	1		Perched	
842 2	31/05/2023	WR	Green	1		Perched	
843 2	31/05/2023	R.	Green	1		Perched	
844 2	31/05/2023	B.	Green	1		Perched	
845 2	31/05/2023	R.	Green	1		Perched	
846 2	31/05/2023	ST	Green	1		Perched	
847 2	31/05/2023	СН	Green	1		Perched	
848 2	31/05/2023	R.	Green	1		Perched	
849 2	31/05/2023	WR	Green	1		Perched	
850 2	31/05/2023	WR	Green	1		Perched	
851 2	 31/05/2023	GC	Amber	1		Perched	
852 2	 31/05/2023	BC	Green	1		Perched	
853 2	 31/05/2023	CH	Green	1	 	Perched	
854 2	31/05/2023	D.	Green	1		Perched	
855 2	31/05/2023	WR	Green	1		Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity Comment	
856	2	31/05/2023	B.	Green	1			Perched	
857	2	31/05/2023	B.	Green	1			Perched	
858	2	31/05/2023	СН	Green	1			Perched	
859	2	31/05/2023	WR	Green	1			Singing	
860	2	31/05/2023	R.	Green	1			Calling	
861	2	31/05/2023	R.	Green	1			Singing	
862	2	31/05/2023	WR	Green	1			Singing	
863	2	31/05/2023	RO	Green	70			On ground	
864	2	31/05/2023	B.	Green	1			Calling	
865	2	31/05/2023	ВС	Green	1			Singing	
866	2	31/05/2023	B.	Green	1			Flying	
867	2	31/05/2023	B.	Green	1			Calling	
868	2	31/05/2023	СН	Green	1			Singing	
869	2	31/05/2023	Y.	Red	1			Singing	
870	2	31/05/2023	B.	Green	1			Calling	
871	2	31/05/2023	GC	Amber	1			Singing	
872	2	31/05/2023	B.	Green	1			Calling	
873	2	31/05/2023	B.	Green	1			Singing	
874	2	31/05/2023	SL	Amber	1			Flying	
875	2	31/05/2023	R.	Green	1			Singing	
876	2	31/05/2023	СН	Green	1			Calling	
877	2	31/05/2023	B.	Green	1			Calling	
878	2	31/05/2023	GC	Amber	1			Singing	
879	2	31/05/2023	R.	Green	1			Calling	
880	2	31/05/2023	WR	Green	1			Singing	
881	2	31/05/2023	WW	Amber	1			Singing	
882	2	31/05/2023	СН	Green	2			Calling	
883	2	31/05/2023	WR	Green	1			Singing	
884	2	31/05/2023	RO	Green	1			Flying	
885	2	31/05/2023	B.	Green	1			Perched	
886	2	31/05/2023	R.	Green	1			Singing	
887	2	31/05/2023	ВС	Green	1			Singing	

889 890 891	2 2 2	31/05/2023 31/05/2023	В.	Green	4		
890 891	2	31/05/2023			1		Calling
891			R.	Green	1		Calling
		31/05/2023	СН	Green	1		Singing
	2	31/05/2023	WW	Amber	1		Singing
892	2	31/05/2023	B.	Green	1		Singing
893	2	31/05/2023	СН	Green	1		Singing
894	2	31/05/2023	CC	Green	1		Singing
895	2	31/05/2023	R.	Green	1		Singing
896	2	31/05/2023	BC	Green	1		Singing
897	2	31/05/2023	B.	Green	1		Calling
898	2	31/05/2023	СН	Green	1		Singing
899	2	31/05/2023	JD	Green	8		Flying
900	2	31/05/2023	BC	Green	1		Perched
901	2	31/05/2023	GO	Green	1		Singing
902	2	31/05/2023	WR	Green	1		Singing
903	2	31/05/2023	R.	Green	1		Calling
904	2	31/05/2023	Y.	Red	1		Singing
905	2	31/05/2023	SC	Green	1		Flying
906	2	31/05/2023	Y.	Red	1		On ground
907	2	31/05/2023	RO	Green	2		Flying
908	2	31/05/2023	WP	Green	1		Flying
909	2	31/05/2023	BZ	Green	1		Perched
910	2	31/05/2023	СН	Green	1		Singing
911	2	31/05/2023	В.	Green	1		Perched
912	2	31/05/2023	СН	Green	1		Calling
913	2	31/05/2023	B.	Green	1		Singing
914	2	31/05/2023	Y.	Red	1		Calling
915	2	31/05/2023	CH	Green	1		Calling
916	2	31/05/2023	Y.	Red	1	 	Singing
917	2	31/05/2023	СН	Green	1		Calling
918	2	31/05/2023	D.	Green	1		Singing
919	2	31/05/2023	GC	Amber	1		Singing

920         2         310502032         WR         Green         1         Singing         Perched           921         2         310502032         R.         Green         1         Perched         Perched           922         2         310502023         D.         Green         1         Perched         Perched           923         2         310502023         BS         Green         1         Perched         Perched           924         2         310502023         BS         Amber         1         Perched         Perched           926         2         310502023         BS         Amber         1         Pilying         Perched           927         2         310502023         BC         Green         1         Pilying         Perched           928         2         310502023         BC         Green         1         Pilying         Perched           929         2         310502023         BC         Green         1         Perched         Perched           932         2         310502023         BC         Green         1         Perched         Perched           933         2         310	ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
922   2   31/05/2023   D.   Green   1   Perched	920	2	31/05/2023	WR	Green	1			Singing	
923	921	2	31/05/2023	R.	Green	1			Perched	
924 2 31/05/2023 JD Green 21 Perched 925 2 31/05/2023 HS Amber 4 Perched 926 2 31/05/2023 HM Amber 1 Prying 927 2 31/05/2023 SL Amber 4 Prying Circling 928 2 31/05/2023 JD Green 1 Prying 929 2 31/05/2023 JD Green 1 Prying 929 2 31/05/2023 B. Green 1 Perched 930 2 31/05/2023 B. Green 1 Perched 931 2 31/05/2023 B. Green 1 Perched 932 2 31/05/2023 B. Green 1 Perched 932 2 31/05/2023 B. Green 1 Perched 932 2 31/05/2023 B. Green 1 Perched 933 2 31/05/2023 B. Green 1 Perched 934 2 31/05/2023 B. Green 1 Perched 935 2 31/05/2023 B. Green 1 Perched 936 2 31/05/2023 B. Green 2 Prying Circling 937 2 31/05/2023 B. Green 2 Prying Circling 938 2 31/05/2023 B. Green 2 Prying 939 2 31/05/2023 B. Green 2 Prying 939 2 31/05/2023 B. Green 1 Singing 940 2 31/05/2023 B. Green 1 Perched 941 2 31/05/2023 B. Green 1 Prying 942 2 31/05/2023 B. Green 1 Prying 943 2 31/05/2023 B. Green 1 Prying 944 2 31/05/2023 B. Green 1 Prying 945 2 31/05/2023 RO Green 1 Prying 946 2 31/05/2023 RO Green 1 Prying 947 2 31/05/2023 RO Green 1 Prying 948 2 31/05/2023 RO Green 1 Prying 949 2 31/05/2023 RO Green 1 Prying 949 2 31/05/2023 RO Green 1 Prying 940 2 31/05/2023 RO Green 1 Prying 941 2 31/05/2023 RO Green 1 Prying 942 2 31/05/2023 RO Green 1 Prying 943 2 31/05/2023 RO Green 1 Prying 944 2 31/05/2023 RO Green 1 Prying 945 2 31/05/2023 RO Green 1 Prying 946 2 31/05/2023 RO Green 1 Prying 947 2 31/05/2023 RO Green 1 Prying 948 2 31/05/2023 RO Green 1 Prying	922	2	31/05/2023	D.	Green	1			Perched	
925   2   31/05/2023   HM	923	2	31/05/2023	WP	Green	1			Perched	
926   2   31/05/2023   HIM   Amber   1   Flying   Gircling     927   2   31/05/2023   SL   Amber   4   Flying   Gircling     928   2   31/05/2023   JD   Green   1   Flying     929   2   31/05/2023   HC   Green   1   Perched     930   2   31/05/2023   HC   Green   1   Perched     931   2   31/05/2023   SG   Amber   4   2 adult & 2 juvenile     932   2   31/05/2023   Flying   Perched     933   2   31/05/2023   Flying   Green   1   Perched     934   2   31/05/2023   Flying   Green   1   Flying     934   2   31/05/2023   Flying   Green   1   Flying     935   2   31/05/2023   Flying   Green   1   Flying     936   2   31/05/2023   Flying   Green   2   Flying     937   2   31/05/2023   Flying   Green   1   Flying     938   2   31/05/2023   Flying   Green   1   Flying     939   2   31/05/2023   Flying   Flying     940   2   31/05/2023   Flying   Flying     941   2   31/05/2023   Flying   Flying     942   2   31/05/2023   Flying   Flying     943   2   31/05/2023   Flying   Flying     944   2   31/05/2023   Flying   Flying     945   2   31/05/2023   Flying   Flying     946   2   31/05/2023   Flying   Flying     947   2   31/05/2023   Flying   Flying     948   2   31/05/2023   Flying   Flying     949   2   31/05/2023   Flying   Flying     940   2   31/05/2023   Flying   Flying     941   2   31/05/2023   Flying   Flying     942   3   31/05/2023   Flying   Flying     943   2   31/05/2023   Flying   Flying     944   2   31/05/2023   Flying   Flying     945   2   31/05/2023   Flying   Flying     946   2   31/05/2023   Flying   Flying     947   2   31/05/2023   Flying   Flying     948   2   31/05/2023   Flying   Flying     949   2   31/05/2023   Flying   Flying     949   2   31/05/2023   Flying   Flying   Flying     949   2   31/05/2023   Flying   Flying   Flying   Flying     940   2   31/05/2023   Flying   Flyin	924	2	31/05/2023	JD	Green	21			Perched	
927 2 31/05/2023 SL Amber 4 Flying Circling 928 2 31/05/2023 JD Green 1 Flying 929 2 31/05/2023 B. Green 1 Flying 930 2 31/05/2023 HC Green 1 Perched 931 2 31/05/2023 HC Green 1 Perched 932 2 31/05/2023 B. Green 1 Perched 932 2 31/05/2023 B. Green 1 Perched 933 2 2 31/05/2023 B. Green 1 Perched 933 2 2 31/05/2023 B. Green 1 Perched 934 2 31/05/2023 B. Green 1 Perched 935 2 31/05/2023 SL Amber 4 Flying Circling 936 2 31/05/2023 B. Green 2 Flying 936 2 31/05/2023 B. Green 2 Flying 937 2 31/05/2023 B. Green 2 Flying 938 2 31/05/2023 B. Green 5 Flying 939 2 31/05/2023 B. Green 1 Singing 939 2 31/05/2023 B. Green 1 Singing 940 2 31/05/2023 B. Green 1 Flying 941 2 31/05/2023 B. Green 1 Flying 942 2 31/05/2023 B. Green 1 Flying 944 2 31/05/2023 B. Green 1 Flying 945 2 31/05/2023 B. Green 1 Flying 946 2 31/05/2023 B. Green 1 Flying 947 2 31/05/2023 B. Green 1 Flying 948 2 31/05/2023 B. Green 1 Flying 948 2 31/05/2023 B. Green 1 Flying 949 2 31/05/2023 B. Green 1 Flying 940 2 31/05/2023 B. Green 1 Flying 941 2 31/05/2023 B. Green 1 Flying 942 2 31/05/2023 B. Green 1 Flying 943 2 31/05/2023 B. Green 1 Flying 944 2 31/05/2023 B. Green 1 Flying 945 2 31/05/2023 B. Green 1 Flying 946 2 31/05/2023 B. Green 1 Flying 947 2 31/05/2023 B. Green 1 Flying 948 2 31/05/2023 B. Green 1 Calling	925	2	31/05/2023	HS	Amber	4			Perched	
928   2   31/05/2023   JD   Green   1   Flying	926	2	31/05/2023	НМ	Amber	1			Flying	
929   2   31/05/2023   B.   Green   1   Singing	927	2	31/05/2023	SL	Amber	4			Flying	Circling
930   2   31/05/2023   HC   Green   1   Perched     931   2   31/05/2023   SG   Amber   4   2 adult & Perched     932   2   31/05/2023   B.   Green   1   Perched     933   2   31/05/2023   PW   Green   1   Flying     934   2   31/05/2023   SL   Amber   4   Flying   Circling     935   2   31/05/2023   SL   Amber   4   Flying   Circling     936   2   31/05/2023   SG   Amber   2   Flying     937   2   31/05/2023   RO   Green   5   Perched     938   2   31/05/2023   B.   Green   5   Perched     938   2   31/05/2023   B.   Green   1   Singing     939   2   31/05/2023   FV   Red   1   Singing     940   2   31/05/2023   B.   Green   1   Calling     941   2   31/05/2023   RO   Green   1   Flying     942   2   31/05/2023   RO   Green   1   Flying     943   2   31/05/2023   RO   Green   1   Flying     944   2   31/05/2023   RO   Green   1   Flying     945   2   31/05/2023   RO   Green   1   Flying     946   2   31/05/2023   RO   Green   1   Flying     947   2   31/05/2023   RO   Green   1   Flying     948   2   31/05/2023   RO   Green   1   Flying     949   2   31/05/2023   RO   Green   1   Flying     948   2   31/05/2023   RO   Green   1   Flying     949   2   31/05/2023   CH   Green   1   Flying     949   2   31/05/2023   CH   Green   1   Flying     949   2   31/05/2023   CH   Green   1   Flying     940   2   31/05/2023   CH   Green   1   Flying     940   2   31/05/2023   CH   Green   1   Flying     940   2   31/05/2	928	2	31/05/2023	JD	Green	1			Flying	
931 2 31/05/2023 SG Amber 4 2 adult & Perched  932 2 31/05/2023 PW Green 1 Perched  933 2 31/05/2023 PW Green 1 Plying  934 2 31/05/2023 SL Amber 4 Flying Circling  935 2 31/05/2023 SG Amber 2 Flying  936 2 31/05/2023 SG Amber 2 Flying  937 2 31/05/2023 RO Green 5 Perched  938 2 31/05/2023 RO Green 1 Singing  939 2 31/05/2023 B. Green 1 Singing  940 2 31/05/2023 B. Green 1 Calling  941 2 31/05/2023 RO Green 1 Flying  942 2 31/05/2023 RO Green 1 Singing  943 2 31/05/2023 B. Green 1 Flying  944 2 31/05/2023 RO Green 1 Flying  945 2 31/05/2023 RO Green 1 Flying  946 2 31/05/2023 RO Green 1 Flying  947 2 31/05/2023 RO Green 1 Flying  948 2 31/05/2023 R. Green 1 Flying  949 2 31/05/2023 R. Green 1 Calling  949 2 31/05/2023 R. Green 1 Calling  949 2 31/05/2023 R. Green 1 Calling	929	2	31/05/2023	B.	Green	1			Singing	
Second Perchase   Second Per	930	2	31/05/2023	HC	Green	1			Perched	
933 2 31/05/2023 PW Green 1 Flying Griding 934 2 31/05/2023 SL Amber 4 Flying Circling 935 2 31/05/2023 B. Green 2 Flying 936 2 31/05/2023 SG Amber 2 Flying 937 2 31/05/2023 RO Green 5 Perched 938 2 31/05/2023 B. Green 1 Singing 939 2 31/05/2023 Y. Red 1 Singing 940 2 31/05/2023 B. Green 1 Calling 941 2 31/05/2023 B. Green 1 Flying 942 2 31/05/2023 RO Green 1 Flying 943 2 31/05/2023 RO Freen 1 Flying 944 2 31/05/2023 RO Freen 1 Flying 945 2 31/05/2023 RO Green 1 Flying 946 2 31/05/2023 R. Green 1 Flying 947 2 31/05/2023 R. Green 1 Flying 948 2 31/05/2023 R. Green 1 Flying 948 2 31/05/2023 R. Green 1 Flying 949 2 31/05/2023 R. Green 1 Flying 949 2 31/05/2023 R. Green 1 Flying 940 2 31/05/2023 R. Green 1 Flying 941 2 31/05/2023 R. Green 1 Flying 942 2 31/05/2023 R. Green 1 Flying 943 2 31/05/2023 R. Green 1 Flying 944 2 31/05/2023 R. Green 1 Flying 945 2 31/05/2023 R. Green 1 Flying 946 2 31/05/2023 R. Green 1 Flying 947 2 31/05/2023 R. Green 1 Calling 948 2 31/05/2023 CH Green 1 Calling	931	2	31/05/2023	SG	Amber	4			Perched	
934	932	2	31/05/2023	B.	Green	1			Perched	
936	933	2	31/05/2023	PW	Green	1			Flying	
936	934	2	31/05/2023	SL	Amber	4			Flying	Circling
937 2 31/05/2023 RO Green 5 Perched  938 2 31/05/2023 B. Green 1 Singing  939 2 31/05/2023 Y. Red 1 Singing  940 2 31/05/2023 B. Green 1 Calling  941 2 31/05/2023 HM Amber 1 Flying  942 2 31/05/2023 RO Green 1 Flying  943 2 31/05/2023 SG Amber 1 Flying  944 2 31/05/2023 SL Amber 1 Flying  945 2 31/05/2023 R. Green 1 Singing  946 2 31/05/2023 R. Green 1 Singing  947 2 31/05/2023 R. Green 1 Singing  948 2 31/05/2023 R. Green 1 Calling  949 2 31/05/2023 R. Green 1 Calling  949 2 31/05/2023 R. Green 1 Calling  949 2 91/05/2023 R. Green 1 Calling	935	2	31/05/2023	B.	Green	2			Flying	
938       2       31/05/2023       B.       Green       1       Singing         939       2       31/05/2023       Y.       Red       1       Singing         940       2       31/05/2023       B.       Green       1       Calling         941       2       31/05/2023       HM       Amber       1       Flying         942       2       31/05/2023       RO       Green       1       Flying         943       2       31/05/2023       SG       Amber       1       Flying         944       2       31/05/2023       SL       Amber       1       Flying         945       2       31/05/2023       R.       Green       1       Singing         946       2       31/05/2023       R.       Green       1       Flying         947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	936	2	31/05/2023	SG	Amber	2			Flying	
939 2 31/05/2023 Y. Red 1 Calling 940 2 31/05/2023 B. Green 1 Calling 941 2 31/05/2023 HM Amber 1 Flying 942 2 31/05/2023 RO Green 1 Flying 943 2 31/05/2023 SG Amber 1 Flying 944 2 31/05/2023 SL Amber 1 Flying 945 2 31/05/2023 R. Green 1 Singing 946 2 31/05/2023 R. Green 1 Singing 947 2 31/05/2023 R. Green 1 Singing 948 2 31/05/2023 R. Green 1 Calling 949 2 31/05/2023 CH Green 1 Calling 949 2 91/05/2023 WP Green 2 Perched	937	2	31/05/2023	RO	Green	5			Perched	
940       2       31/05/2023       B.       Green       1       Calling         941       2       31/05/2023       HM       Amber       1       Flying         942       2       31/05/2023       RO       Green       1       Flying         943       2       31/05/2023       SG       Amber       1       Flying         944       2       31/05/2023       SL       Amber       1       Flying         945       2       31/05/2023       R.       Green       1       Singing         946       2       31/05/2023       B.       Green       1       Flying         947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	938	2	31/05/2023	В.	Green	1			Singing	
941       2       31/05/2023       HM       Amber       1       Flying         942       2       31/05/2023       RO       Green       1       Flying         943       2       31/05/2023       SG       Amber       1       Flying         944       2       31/05/2023       SL       Amber       1       Flying         945       2       31/05/2023       R.       Green       1       Singing         946       2       31/05/2023       B.       Green       1       Flying         947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	939	2	31/05/2023	Y.	Red	1			Singing	
942 2 31/05/2023 RO Green 1 Flying 943 2 31/05/2023 SG Amber 1 Flying 944 2 31/05/2023 SL Amber 1 Flying 945 2 31/05/2023 R. Green 1 Singing 946 2 31/05/2023 B. Green 1 Flying 947 2 31/05/2023 R. Green 1 Calling 948 2 31/05/2023 CH Green 1 Calling 949 2 31/05/2023 WP Green 2 Perched	940	2	31/05/2023	B.	Green	1			Calling	
943 2 31/05/2023 SG Amber 1 Flying  944 2 31/05/2023 SL Amber 1 Flying  945 2 31/05/2023 R. Green 1 Singing  946 2 31/05/2023 B. Green 1 Flying  947 2 31/05/2023 R. Green 1 Calling  948 2 31/05/2023 CH Green 1 Calling  949 2 31/05/2023 WP Green 2 Perched	941	2	31/05/2023	НМ	Amber	1			Flying	
944       2       31/05/2023       SL       Amber       1       Flying         945       2       31/05/2023       R.       Green       1       Singing         946       2       31/05/2023       B.       Green       1       Flying         947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	942	2	31/05/2023	RO	Green	1			Flying	
945       2       31/05/2023       R.       Green       1       Singing         946       2       31/05/2023       B.       Green       1       Flying         947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	943	2	31/05/2023	SG	Amber	1			Flying	
946       2       31/05/2023       B.       Green       1       Flying         947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	944	2	31/05/2023	SL	Amber	1			Flying	
947       2       31/05/2023       R.       Green       1       Calling         948       2       31/05/2023       CH       Green       1       Calling         949       2       31/05/2023       WP       Green       2       Perched	945	2	31/05/2023	R.	Green	1			Singing	
948     2     31/05/2023     CH     Green     1     Calling       949     2     31/05/2023     WP     Green     2     Perched	946	2	31/05/2023	B.	Green	1			Flying	
949 2 31/05/2023 WP Green 2 Perched	947	2	31/05/2023	R.	Green	1			Calling	
	948	2	31/05/2023	СН	Green	1			Calling	
950 2 31/05/2023 RO Green 1 Flying	949	2	31/05/2023	WP	Green	2			Perched	
	950	2	31/05/2023	RO	Green	1			Flying	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
951	2	31/05/2023	СН	Green	1			Calling	
952	2	31/05/2023	HS	Amber	2			Perched	
953	2	31/05/2023	R.	Green	1			Perched	
954	2	31/05/2023	SL	Amber	1			Flying	Circling
955	2	31/05/2023	Y.	Red	1			Singing	
956	3	26/06/2023	GC	Amber	1			Singing	
957	3	26/06/2023	WR	Green	1			Singing	
958	3	26/06/2023	WP	Green	1			Singing	
959	3	26/06/2023	PH	NA	1			Calling	
960	3	26/06/2023	SL	Amber	2			Perched	
961	3	26/06/2023	SL	Amber	3			Perched	Perched then flew N
962	3	26/06/2023	ВТ	Green	2	Adult		Calling	
963	3	26/06/2023	WR	Green	1			Singing	
964	3	26/06/2023	B.	Green	1	Adult	Male	Calling	Flew from one hedgerow to other
965	3	26/06/2023	PH	NA	1		Female	Calling	
966	3	26/06/2023	Y.	Red	1	Adult	Male	Calling	
967	3	26/06/2023	SG	Amber	30	20 adult & 10 juvenile		Perched	
968	3	26/06/2023	M.	Green	1			Perched	Perched then flew S
969	3	26/06/2023	LI	Amber	1	Adult		Singing	
970	3	26/06/2023	ВТ	Green	2	Adult & juvenile			Perched then flew E
971	3	26/06/2023	WR	Green	1			Singing	
972	3	26/06/2023	S.	Amber	2			Singing in flight	
973	3	26/06/2023	SC	Green	1		Male	Perched	
974	3	26/06/2023	WR	Green	1			Singing	
975	3	26/06/2023	MP	Green	1			Singing	
976	3	26/06/2023	LI	Amber	2			Flying	Into vegetation
977	3	26/06/2023	WR	Green	1			Calling	
978	3	26/06/2023	B.	Green	1	Adult	Male	Flying	Into vegetation
979	3	26/06/2023	D.	Green	1			Perched	

ID	Survey No.	Date	вто	воссі	No.	Age Se	ex Activi	ty Comment
980	3	26/06/2023	B.	Green	2	Fer	male	
981	3	26/06/2023	Y.	Red	1	Adult Ma	ale Percheo	d
982	3	26/06/2023	WR	Green	1		Singing	
983	3	26/06/2023	HC	Green	3	2 Adult & 1 juvenile	On grou	und
984	3	26/06/2023	WR	Green	1		Singing	
985	3	26/06/2023	СН	Green	1		Calling	
986	3	26/06/2023	WP	Green	1		Perched	d
987	3	26/06/2023	Y.	Red	1		Singing	
988	3	26/06/2023	B.	Green	1		On grou	und
989	3	26/06/2023	PH	NA	1		Calling	
990	3	26/06/2023	WR	Green	1		Singing	
991	3	26/06/2023	НМ	Amber	1		Percheo	d
992	3	26/06/2023	SL	Amber	2		Percheo	d
993	3	26/06/2023	WR	Green	1		Singing	
994	3	26/06/2023	СН	Green	1		Singing	
995	3	26/06/2023	ST	Green	1		Singing	
996	3	26/06/2023	JD	Green	6		Calling	
997	3	26/06/2023	SL	Amber	4		Flying	Circling barn
998	3	26/06/2023	Y.	Red	1		Singing	
999	3	26/06/2023	LI	Amber	1		Perched	d
1000	3	26/06/2023	WR	Green	1		Singing	
1001	3	26/06/2023	WR	Green	1		Singing	
1002	3	26/06/2023	GC	Amber	1		Singing	
1003	3	26/06/2023	Y.	Red	1		Perched	d
1004	3	26/06/2023	HS	Amber	1	Ма	ale Percheo	d
1005	3	26/06/2023	PW	Green	1		On grou	und
1006	3	26/06/2023	CH	Green	1		Singing	
1007	3	26/06/2023	WR	Green	1		Singing	
1008	3	26/06/2023	ST	Green	1		Singing	
1009	3	26/06/2023	HS	Amber	1		Flying	Into vegetation
1010	3	26/06/2023	WR	Green	1		Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1011	3	26/06/2023	Y.	Red	1			Singing	
1012	3	26/06/2023	ST	Green	1			Singing	
1013	3	26/06/2023	B.	Green	1		Male	Perched	
1014	3	26/06/2023	SL	Amber	1			Perched	
1015	3	26/06/2023	WR	Green	1			Singing	
1016	3	26/06/2023	WP	Green	1			Perched	
1017	3	26/06/2023	WR	Green	1			Singing	
1018	3	26/06/2023	GT	Green	1			Singing	
1019	3	26/06/2023	WR	Green	1			Singing	
1020	3	26/06/2023	ВС	Green	1			Singing	
1021	3	26/06/2023	WR	Green	1			Singing	
1022	3	26/06/2023	WP	Green	40			Flying	Circling
1023	3	26/06/2023	Y.	Red	1			Singing	
1024	3	26/06/2023	WR	Green	1			Singing	
1025	3	26/06/2023	CD	Green	1			Perched	
1026	3	26/06/2023	B.	Green	1		Female	Foraging	Carrying food
1027	3	26/06/2023	SL	Amber	1			Perched	
1028	3	26/06/2023	HS	Amber	1			Perched	
1029	3	26/06/2023	WP	Green	1			Perched	Perched then flew W
1030	3	26/06/2023	GR	Amber	1			Calling	
1031	3	26/06/2023	SL	Amber	1			Perched	
1032	3	26/06/2023	WR	Green	1			Calling	
1033	3	26/06/2023	ВТ	Green	1			Singing	
1034	3	26/06/2023	JD	Green	2			Calling	
1035	3	26/06/2023	BF	Green	1			Calling	Calling in response to nearby BF
1036	3	26/06/2023	BF	Green	1			Calling	
1037	3	26/06/2023	LI	Amber	1			Perched	
1038	3	26/06/2023	B.	Green	1			Perched	
1039	3	26/06/2023	R.	Green	1			Singing	
1040	3	26/06/2023	B.	Green	1		Male		
1041	3	26/06/2023	LI	Amber	3			Flying	Into vegetation
1042	3	26/06/2023	WR	Green	1			Calling	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1043	3	26/06/2023	СН	Green	1			Calling	
1044	3	26/06/2023	WR	Green	1			Singing	
1045	3	26/06/2023	SL	Amber	1			Perched	
1046	3	26/06/2023	Y.	Red	1			Singing	
1047	3	26/06/2023	HS	Amber	1			On ground	
1048	3	26/06/2023	СН	Green	1			Singing	
1049	3	26/06/2023	S.	Amber	1			Singing in flight	
1050	3	26/06/2023	B.	Green	1		Male		
1051	3	26/06/2023	B.	Green	1			Calling	
1052	3	26/06/2023	HS	Amber	3			Perched	
1053	3	26/06/2023	HS	Amber	1			Perched	
1054	3	26/06/2023	WR	Green	1			Singing	
1055	3	26/06/2023	WR	Green	1			Singing	
1056	3	26/06/2023	HS	Amber	10			Perched	Flew from other hedgerow and landed
1057	3	26/06/2023	PW	Green	1			Perched	
1058	3	26/06/2023	WR	Green	1			Singing	
1059	3	26/06/2023	B.	Green	1		Male	Perched	
1060	3	26/06/2023	CD	Green	1			Perched	
1061	3	26/06/2023	WW	Amber	1			Singing	
1062	3	26/06/2023	WR	Green	1			Singing	
1063	3	26/06/2023	CC	Green	1			Singing	
1064	3	26/06/2023	MP	Green	2				
1065	3	26/06/2023	WP	Green	1			Perched	
1066	3	26/06/2023	MG	Green	1			On ground	
1067	3	26/06/2023	WR	Green	1			Singing	
1068	3	26/06/2023	В.	Green	1			Calling	
1069	3	26/06/2023	WR	Green	1			Singing	
1070	3	26/06/2023	WP	Green	4			Perched	
1071	3	26/06/2023	PW	Green	1	Juvenile		Foraging	
1072	3	26/06/2023	SG	Amber	15			Perched	
1073	3	26/06/2023	PW	Green	1	Adult		On ground	

1075   3   2606/2023   B   Green   1   Adult   Male   Foraging	ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1076   3	1074	3	26/06/2023	LI	Amber	5			On ground	
1077   3	1075	3	26/06/2023	B.	Green	1	Adult	Male	Foraging	
1078         3         26/06/2023         BT         Green         1         Flying         Into vegetation           1079         3         26/06/2023         WR         Green         1         Singing           1080         3         26/06/2023         GO         Green         1         Singing           1081         3         26/06/2023         GO         Green         2         Singing           1082         3         26/06/2023         WR         Green         1         Singing           1083         3         26/06/2023         WR         Green         1         Singing           1084         3         26/06/2023         WR         Green         1         Singing           1085         3         26/06/2023         BZ         Green         1         Perched           1086         3         26/06/2023         WR         Green         1         Singing           1087         3         26/06/2023         WR         Green         1         Calling           1089         3         26/06/2023         BC         Green         1         Singing           1099         3         26/06/2023         <	1076	3	26/06/2023	HS	Amber	6			Singing	
1079   3	1077	3	26/06/2023	SG	Amber	1			Perched	
1680         3         26/06/2023         GO         Green         1         Singing           1081         3         26/06/2023         GO         Green         2         Singing           1082         3         26/06/2023         WR         Green         1         Singing           1083         3         26/06/2023         WR         Green         1         Singing           1084         3         26/06/2023         ST         Green         1         Singing           1085         3         26/06/2023         BZ         Green         1         Perched           1086         3         26/06/2023         WR         Green         1         Singing           1087         3         26/06/2023         WR         Green         1         Singing           1088         3         26/06/2023         WP         Green         1         Calling           1089         3         26/06/2023         BC         Green         1         Singing           1099         3         26/06/2023         BC         Green         1         Singing           1091         3         26/06/2023         WR         Green <td>1078</td> <td>3</td> <td>26/06/2023</td> <td>ВТ</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Flying</td> <td>Into vegetation</td>	1078	3	26/06/2023	ВТ	Green	1			Flying	Into vegetation
1081   3	1079	3	26/06/2023	WR	Green	1			Singing	
1082   3	1080	3	26/06/2023	GO	Green	1			Singing	
1083         3         26/06/2023         WR         Green         1         Singing           1084         3         26/06/2023         ST         Green         1         Singing           1085         3         26/06/2023         BZ         Green         1         Perched           1086         3         26/06/2023         WR         Green         1         Singing           1087         3         26/06/2023         GC         Amber         1         Singing           1088         3         26/06/2023         WP         Green         1         Singing           1089         3         26/06/2023         BC         Green         1         Singing           1090         3         26/06/2023         BC         Green         1         Singing           1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         BC         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         WR         Green <td>1081</td> <td>3</td> <td>26/06/2023</td> <td>GO</td> <td>Green</td> <td>2</td> <td></td> <td></td> <td>Singing</td> <td></td>	1081	3	26/06/2023	GO	Green	2			Singing	
1084         3         26/06/2023         ST         Green         1         Singing           1085         3         26/06/2023         BZ         Green         1         Perched           1086         3         26/06/2023         WR         Green         1         Singing           1087         3         26/06/2023         WP         Green         1         Calling           1088         3         26/06/2023         BC         Green         1         Calling           1089         3         26/06/2023         BC         Green         1         Singing           1090         3         26/06/2023         BC         Green         1         Singing           1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         WR         Green         1         Singing           1095         3         26/06/2023         WR         Green <td>1082</td> <td>3</td> <td>26/06/2023</td> <td>WR</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Singing</td> <td></td>	1082	3	26/06/2023	WR	Green	1			Singing	
1085   3   26/06/2023   BZ   Green   1   Perched     1086   3   26/06/2023   WR   Green   1   Singing     1087   3   26/06/2023   GC   Amber   1   Singing     1088   3   26/06/2023   WP   Green   1   Calling     1089   3   26/06/2023   BC   Green   1   Singing     1090   3   26/06/2023   BC   Green   1   Singing     1091   3   26/06/2023   BC   Green   1   Singing     1092   3   26/06/2023   BC   Green   1   Singing     1093   3   26/06/2023   WR   Green   1   Singing     1094   3   26/06/2023   WR   Green   1   Singing     1095   3   26/06/2023   GO   Green   1   Singing     1096   3   26/06/2023   GO   Green   1   Singing     1097   3   26/06/2023   WR   Green   1   Singing     1098   3   26/06/2023   WP   Green   1   Singing     1099   3   26/06/2023   GO   Green   3   Singing     1000   3   26/06/2023   HS   Amber   4   Singing     1101   3   26/06/2023   PW   Green   1   Perched     1101   3   26/06/2023   HM   Amber   6   Flying   Circling     1102   3   26/06/2023   WR   Green   1   Singing     1103   3   26/06/2023   WR   Green   1   Singing     1104   3   26/06/2023   WR   Green   1   Singing     1105   3   26/06/2023   HM   Amber   6   Flying   Circling     1106   3   26/06/2023   WR   Green   1   Singing     1107   3   26/06/2023   WR   Green   1   Singing     1108   3   26/06/2023   WR   Green   1   Singing     1109   3   26/06/2023   WR   Green   1   Singing     1100   3   26/06/2023   WR   Green   1   Singing     1101   3   26/06/2023   WR   Green   1   Singing     1102   3   26/06/2023   WR   Green   1   Singing     1103   3   26/06/2023   WR   Green   1   Singing	1083	3	26/06/2023	WR	Green	1			Singing	
1086         3         26/06/2023         WR         Green         1         Singing           1087         3         26/06/2023         GC         Amber         1         Singing           1088         3         26/06/2023         WP         Green         1         Calling           1089         3         26/06/2023         BC         Green         1         Singing           1090         3         26/06/2023         GC         Amber         1         Singing           1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         WR         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green <td>1084</td> <td>3</td> <td>26/06/2023</td> <td>ST</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Singing</td> <td></td>	1084	3	26/06/2023	ST	Green	1			Singing	
1087         3         26/06/2023         GC         Amber         1         Singing           1088         3         26/06/2023         WP         Green         1         Calling           1089         3         26/06/2023         BC         Green         1         Singing           1090         3         26/06/2023         GC         Amber         1         Singing           1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         WR         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green <td>1085</td> <td>3</td> <td>26/06/2023</td> <td>BZ</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Perched</td> <td></td>	1085	3	26/06/2023	BZ	Green	1			Perched	
1088   3   26/06/2023   WP   Green   1   Calling     1089   3   26/06/2023   BC   Green   1   Singing     1090   3   26/06/2023   GC   Amber   1   Singing     1091   3   26/06/2023   BC   Green   1   Singing     1092   3   26/06/2023   WR   Green   1   Singing     1093   3   26/06/2023   WR   Green   1   Singing     1094   3   26/06/2023   WR   Green   1   Singing     1095   3   26/06/2023   WR   Green   1   Singing     1096   3   26/06/2023   WR   Green   1   Singing     1097   3   26/06/2023   WP   Green   1   Singing     1098   3   26/06/2023   GO   Green   1   Singing     1099   3   26/06/2023   GO   Green   1   Singing     1098   3   26/06/2023   GO   Green   1   Singing     1099   3   26/06/2023   GO   Green   3   Singing     1099   3   26/06/2023   HS   Amber   4   Singing     1100   3   26/06/2023   PW   Green   1   Perched     1101   3   26/06/2023   SL   Amber   6   Flying   Circling     1102   3   26/06/2023   WR   Green   1   Singing     1103   3   26/06/2023   WR   Green   1   Singing     1104   3   26/06/2023   CH   Green   1   Singing     1104   3   26/06/2023   CH   Green   1   Singing     1104   3   26/06/2023   CH   Green   1   Singing     1105   Singing   Circling	1086	3	26/06/2023	WR	Green	1			Singing	
1089         3         26/06/2023         BC         Green         1         Singing           1090         3         26/06/2023         GC         Amber         1         Singing           1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         GO         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         HM         Amber <td>1087</td> <td>3</td> <td>26/06/2023</td> <td>GC</td> <td>Amber</td> <td>1</td> <td></td> <td></td> <td>Singing</td> <td></td>	1087	3	26/06/2023	GC	Amber	1			Singing	
1090         3         26/06/2023         GC         Amber         1         Singing           1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         GO         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         HW         Green         1         Perched           1101         3         26/06/2023         SL         Amber <td>1088</td> <td>3</td> <td>26/06/2023</td> <td>WP</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Calling</td> <td></td>	1088	3	26/06/2023	WP	Green	1			Calling	
1091         3         26/06/2023         BC         Green         1         Singing           1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         GO         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         PW         Green         1         Perched           1101         3         26/06/2023         HM         Amber         6         Flying         Circling           1102         3         26/06/2023         SL </td <td>1089</td> <td>3</td> <td>26/06/2023</td> <td>ВС</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Singing</td> <td></td>	1089	3	26/06/2023	ВС	Green	1			Singing	
1092         3         26/06/2023         WR         Green         1         Singing           1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         GO         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         PW         Green         1         Perched           1101         3         26/06/2023         HM         Amber         6         Flying         Circling           1103         3         26/06/2023         SL         Amber         6         Flying         Circling           1104         3         26/06/2	1090	3	26/06/2023	GC	Amber	1			Singing	
1093         3         26/06/2023         WR         Green         1         Singing           1094         3         26/06/2023         GO         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         PW         Green         1         Perched           1101         3         26/06/2023         HM         Amber         6         Flying         Circling           1103         3         26/06/2023         SL         Amber         6         Flying         Circling           1104         3         26/06/2023         WR         Green         1         Singing           1104         3         26/06/2	1091	3	26/06/2023	ВС	Green	1			Singing	
1094         3         26/06/2023         GO         Green         1         Singing           1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         PW         Green         1         Perched           1101         3         26/06/2023         HM         Amber         6         Flying         Circling           1102         3         26/06/2023         SL         Amber         6         Flying         Circling           1103         3         26/06/2023         WR         Green         1         Singing           1104         3         26/06/2023         CH         Green         1         Calling	1092	3	26/06/2023	WR	Green	1			Singing	
1095         3         26/06/2023         WR         Green         1         Singing           1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         PW         Green         1         Perched           1101         3         26/06/2023         HM         Amber         6         Flying         Circling           1102         3         26/06/2023         SL         Amber         6         Flying         Circling           1103         3         26/06/2023         WR         Green         1         Singing           1104         3         26/06/2023         CH         Green         1         Calling	1093	3	26/06/2023	WR	Green	1			Singing	
1096         3         26/06/2023         WP         Green         1         Singing           1097         3         26/06/2023         GO         Green         1         Singing           1098         3         26/06/2023         GO         Green         3         Singing           1099         3         26/06/2023         HS         Amber         4         Singing           1100         3         26/06/2023         PW         Green         1         Perched           1101         3         26/06/2023         HM         Amber         6         Flying         Circling           1102         3         26/06/2023         SL         Amber         6         Flying         Circling           1103         3         26/06/2023         WR         Green         1         Singing           1104         3         26/06/2023         CH         Green         1         Calling	1094	3	26/06/2023	GO	Green	1			Singing	
1097     3     26/06/2023     GO     Green     1     Singing       1098     3     26/06/2023     GO     Green     3     Singing       1099     3     26/06/2023     HS     Amber     4     Singing       1100     3     26/06/2023     PW     Green     1     Perched       1101     3     26/06/2023     HM     Amber     6     Flying     Circling       1102     3     26/06/2023     SL     Amber     6     Flying     Circling       1103     3     26/06/2023     WR     Green     1     Singing       1104     3     26/06/2023     CH     Green     1     Calling	1095	3	26/06/2023	WR	Green	1			Singing	
1098       3       26/06/2023       GO       Green       3       Singing         1099       3       26/06/2023       HS       Amber       4       Singing         1100       3       26/06/2023       PW       Green       1       Perched         1101       3       26/06/2023       HM       Amber       6       Flying       Circling         1102       3       26/06/2023       SL       Amber       6       Flying       Circling         1103       3       26/06/2023       WR       Green       1       Singing         1104       3       26/06/2023       CH       Green       1       Calling	1096	3	26/06/2023	WP	Green	1			Singing	
1099       3       26/06/2023       HS       Amber       4       Singing         1100       3       26/06/2023       PW       Green       1       Perched         1101       3       26/06/2023       HM       Amber       6       Flying       Circling         1102       3       26/06/2023       SL       Amber       6       Flying       Circling         1103       3       26/06/2023       WR       Green       1       Singing         1104       3       26/06/2023       CH       Green       1       Calling	1097	3	26/06/2023	GO	Green	1			Singing	
1100       3       26/06/2023       PW       Green       1       Perched         1101       3       26/06/2023       HM       Amber       6       Flying       Circling         1102       3       26/06/2023       SL       Amber       6       Flying       Circling         1103       3       26/06/2023       WR       Green       1       Singing         1104       3       26/06/2023       CH       Green       1       Calling	1098	3	26/06/2023	GO	Green	3			Singing	
1101       3       26/06/2023       HM       Amber       6       Flying       Circling         1102       3       26/06/2023       SL       Amber       6       Flying       Circling         1103       3       26/06/2023       WR       Green       1       Singing         1104       3       26/06/2023       CH       Green       1       Calling	1099	3	26/06/2023	HS	Amber	4			Singing	
1102       3       26/06/2023       SL       Amber       6       Flying       Circling         1103       3       26/06/2023       WR       Green       1       Singing         1104       3       26/06/2023       CH       Green       1       Calling	1100	3	26/06/2023	PW	Green	1			Perched	
1103     3     26/06/2023     WR     Green     1     Singing       1104     3     26/06/2023     CH     Green     1     Calling	1101	3	26/06/2023	НМ	Amber	6			Flying	Circling
1104 3 26/06/2023 CH Green 1 Calling	1102	3	26/06/2023	SL	Amber	6			Flying	Circling
	1103	3	26/06/2023	WR	Green	1			Singing	
1105 3 26/06/2023 SG Amber 1 Perched	1104	3	26/06/2023	СН	Green	1			Calling	
	1105	3	26/06/2023	SG	Amber	1			Perched	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1106	3	26/06/2023	CH	Green	1		Male	Singing	
1107	3	26/06/2023	WR	Green	1			Singing	
1108	3	26/06/2023	Y.	Red	1			Singing	
1109	3	26/06/2023	PH	NA	1			Calling	
1110	3	26/06/2023	ST	Green	1			Singing	
1111	3	26/06/2023	GC	Amber	1			Singing	
1112	3	26/06/2023	LI	Amber	1				
1113	3	26/06/2023	R.	Green	1			Calling	
1114	3	26/06/2023	НМ	Amber	1			Flying	Circling
1115	3	26/06/2023	WP	Green	1			Perched	
1116	3	26/06/2023	Y.	Red	1			Singing	
1117	3	26/06/2023	CC	Green	1			Singing	
1118	3	26/06/2023	ВС	Green	1			Singing	
1119	3	26/06/2023	ВТ	Green	1			Calling	
1120	3	26/06/2023	GC	Amber	1			Singing	
1121	3	26/06/2023	Y.	Red	1			Singing	
1122	3	26/06/2023	BC	Green	1			Singing	
1123	3	26/06/2023	BC	Green	1			Singing	
1124	3	26/06/2023	СН	Green	1			Calling	
1125	3	26/06/2023	ВТ	Green	1			Calling	
1126	3	26/06/2023	CH	Green	1	Adult	Male	Singing	Moved from wire into hedgerow
1127	3	26/06/2023	WP	Green	1			Perched	
1128	3	26/06/2023	ВТ	Green	1			Calling	
1129	3	26/06/2023	ВТ	Green	1			Singing	
1130	3	26/06/2023	CC	Green	1			Singing	
1131	3	26/06/2023	BC	Green	1			Singing	
1132	3	26/06/2023	R.	Green	1			Calling	
1133	3	26/06/2023	WP	Green	1			Singing	
1134	3	26/06/2023	ВТ	Green	1			Calling	
1135	3	26/06/2023	GC	Amber	1			Singing	
1136	3	26/06/2023	B.	Green	1			Singing	
1137	3	26/06/2023	Y.	Red	1			Calling	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1138	3	26/06/2023	WR	Green	1			Singing	
1139	3	26/06/2023	WR	Green	1			Singing	
1140	3	26/06/2023	R.	Green	1			Calling	
1141	3	26/06/2023	ВТ	Green	1			Singing	
1142	3	26/06/2023	GC	Amber	1			Singing	
1143	3	26/06/2023	ВТ	Green	1			Calling	
1144	3	26/06/2023	Y.	Red	1			Singing	
1145	3	26/06/2023	В.	Green	1	Adult	Female	Calling	
1146	3	26/06/2023	ВС	Green	1			Singing	
1147	3	26/06/2023	ВТ	Green	1			Calling	
1148	3	26/06/2023	ВТ	Green	1			Singing	
1149	3	26/06/2023	B.	Green	1			Calling	
1150	3	27/06/2023	WR	Green	1			Singing	
1151	3	27/06/2023	СН	Green	1			Calling	
1152	3	27/06/2023	B.	Green	1			Calling	
1153	3	27/06/2023	B.	Green	1			Calling	
1154	3	27/06/2023	ВТ	Green	1			Calling	
1155	3	27/06/2023	ВТ	Green	1			Calling	
1156	3	27/06/2023	СН	Green	1			Singing	
1157	3	27/06/2023	В.	Green	1			Singing	
1158	3	27/06/2023	Y.	Red	1			Singing	
1159	3	27/06/2023	WR	Green	1			Singing	
1160	3	27/06/2023	R.	Green	1			Calling	
1161	3	27/06/2023	GO	Green	1			Calling	
1162	3	27/06/2023	В.	Green	1			Calling	
1163	3	27/06/2023	WR	Green	1			Singing	
1164	3	27/06/2023	WR	Green	1			Singing	Possibly same wren
1165	3	27/06/2023	HC	Green	1			Perched	
1166	3	27/06/2023	SG	Amber	1			Flying	Circling
1167	3	27/06/2023	GC	Amber	1			Singing	
1168	3	27/06/2023	WR	Green	1			Singing	
1169	3	27/06/2023	WR	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1170	3	27/06/2023	WR	Green	1			Singing	
1171	3	27/06/2023	ВС	Green	1			Singing	
1172	3	27/06/2023	WR	Green	1			Singing	
1173	3	27/06/2023	GC	Amber	1			Singing	
1174	3	27/06/2023	СН	Green	1			Singing	
1175	3	27/06/2023	НМ	Amber	1			Flying	Circling
1176	3	27/06/2023	GO	Green	1			Singing	
1177	3	27/06/2023	ВС	Green	1			Singing	
1178	3	27/06/2023	R.	Green	1			Calling	
1179	3	27/06/2023	ВС	Green	1			Singing	
1180	3	27/06/2023	WR	Green	1			Singing	
1181	3	27/06/2023	R.	Green	1			Calling	
1182	3	27/06/2023	СН	Green	2			Singing	
1183	3	27/06/2023	WP	Green	1			Singing	
1184	3	27/06/2023	Y.	Red	1			Singing	
1185	3	27/06/2023	WR	Green	1			Singing	
1186	3	27/06/2023	R.	Green	1			Calling	
1187	3	27/06/2023	ВС	Green	1			Singing	
1188	3	27/06/2023	ВС	Green	1			Singing	Different bird to nearby record
1189	3	27/06/2023	WR	Green	1			Singing	Different bird, singing simultaneously - territory defence
1190	3	27/06/2023	вт	Green	1			Calling	
1191	3	27/06/2023	WR	Green	1			Singing	
1192	3	27/06/2023	В.	Green	1			Calling	
1193	3	27/06/2023	WR	Green	1			Singing	Different bird, singing simultaneously - territory defence
1194	3	27/06/2023	WR	Green	1			Singing	
1195	3	27/06/2023	WR	Green	1			Singing	
1196	3	27/06/2023	СН	Green	1			Singing	
1197	3	27/06/2023	ВТ	Green	1			Singing	
1198	3	27/06/2023	СН	Green	1			Singing	
1199	3	27/06/2023	СН	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1200	3	27/06/2023	Y.	Red	1			Singing	
1201	3	27/06/2023	WR	Green	1			Singing	
1202	3	27/06/2023	WP	Green	1			Singing	
1203	3	27/06/2023	CH	Green	1			Singing	
1204	3	27/06/2023	ВТ	Green	1			Calling	
1205	3	27/06/2023	ВС	Green	1			Singing	
1206	3	27/06/2023	SL	Amber	2			Flying	Circling
1207	3	27/06/2023	WR	Green	1			Singing	
1208	3	27/06/2023	WP	Green	2			Perched	
1209	3	27/06/2023	ВС	Green	1			Singing	
1210	3	27/06/2023	B.	Green	1		Male		
1211	3	27/06/2023	Y.	Red	1			Singing	
1212	3	27/06/2023	ВС	Green	1			Singing	
1213	3	27/06/2023	WR	Green	1			Singing	
1214	3	27/06/2023	B.	Green	1			Calling	
1215	3	27/06/2023	B.	Green	1			Calling	
1216	3	27/06/2023	ВТ	Green	2			Calling	
1217	3	27/06/2023	R.	Green	1			Calling	
1218	3	27/06/2023	ВТ	Green	1			Singing	
1219	3	27/06/2023	ВС	Green	1			Singing	
1220	3	27/06/2023	CH	Green	1			Singing	
1221	3	27/06/2023	WR	Green	1			Singing	
1222	3	27/06/2023	ВТ	Green	1			Calling	
1223	3	27/06/2023	ST	Green	1			Singing	
1224	3	27/06/2023	WR	Green	1			Calling	
1225	3	27/06/2023	S.	Amber	1			Singing	
1226	3	27/06/2023	СН	Green	1			Singing	
1227	3	27/06/2023	CA	Amber	1			Perched	
1228	3	27/06/2023	CH	Green	1			Singing	
1229	3	27/06/2023	ВС	Green	1			Singing	
1230	3	27/06/2023	WR	Green	1			Singing	
1231	3	27/06/2023	GC	Amber	1			Singing	

1232   3   27/06/2023   Y.   Red   1   Caling	ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1234   3   27/06/2023   WR   Green   1   Singing   Different bird to nearby record   1235   3   27/06/2023   R.   Green   1   Singing   Different bird to nearby record   1236   3   27/06/2023   WR   Green   1   Singing   Different bird to nearby record   1237   3   27/06/2023   WR   Green   1   Singing   Singing   1238   3   27/06/2023   WW   Amber   1   Singing   Possibly same bird   1239   3   27/06/2023   WR   Green   1   Singing   Possibly same bird   1240   3   27/06/2023   WW   Amber   1   Singing   Possibly same bird   1241   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1241   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1244   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1244   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1244   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Singing   Possibly same bird   1244   3   27/06/2023   SW   Green   2   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   2   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   2   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Singing   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird   1244   3   27/06/2023   SW   Green   1   Calling   Possibly same bird	1232	3	27/06/2023	Y.	Red	1			Calling	
1235   3   27/06/2023   R.   Green   1   Singing   Different bird to nearby record   1237   3   27/06/2023   WR   Green   1   Singing   Different bird to nearby record   1237   3   27/06/2023   WR   Green   1   Singing   1238   3   27/06/2023   WR   Green   1   Singing   Possibly same bird   1240   3   27/06/2023   WR   Green   1   Singing   Possibly same bird   1240   3   27/06/2023   WR   Green   1   Singing   Possibly same bird   1241   3   27/06/2023   WR   Green   1   Singing   Possibly same bird   1242   3   27/06/2023   WR   Green   1   Singing   1242   3   27/06/2023   CH   Green   1   Calling   Calling   1244   3   27/06/2023   S.   Amber   1   Singing   1244   3   27/06/2023   S.   Amber   1   Singing   1244   3   27/06/2023   S.   Amber   1   Singing   1244   3   27/06/2023   SW   Green   2   Calling   1245   3   27/06/2023   SW   Green   2   Calling   1246   3   27/06/2023   SW   Green   2   Calling   1247   3   27/06/2023   SC   Green   1   Singing   1248   3   27/06/2023   SC   Green   1   Calling   1248   3   27/06/2023   SC   Green   1   Calling   1249   3   27/06/2023   SC   Green   1   Calling   1249   3   27/06/2023   SC   Green   1   Calling   1250   3   27/06/2023   SC   Green   1   Calling   1250   3   27/06/2023   SC   Green   1   Calling   1250   3   27/06/2023   SC   Green   1   Calling   1252   3   27/06/2023   SC   Green   1   Calling   1252   3   27/06/2023   SC   Green   1   Calling   1255   3   27/06/2023   SC   Green   1   Calling   1255   3   27/06/2023   SC   Green   1   Calling   1255   3   27/06/2023   SC   Green   1   Calling   1256   3   27/06/2023   SC   Green   1   Calli	1233	3	27/06/2023	ВС	Green	1			Singing	Possibly same bird
1236   3   27/06/2023   WR   Green   1   Singing   Different bird to nearby record   1237   3   27/06/2023   WR   Green   1   Singing   1238   3   27/06/2023   WW   Amber   1   Singing   1239   3   27/06/2023   WR   Green   1   Singing   Possibly same bird   1240   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1241   3   27/06/2023   CH   Green   1   Singing   Total   1242   3   27/06/2023   CH   Green   1   Galling   Total   1244   3   27/06/2023   CH   Green   1   Galling   Total   1244   3   27/06/2023   CH   Green   1   Galling   Total   1244   3   27/06/2023   S.   Amber   1   Singing   Total   1244   3   27/06/2023   S.   Amber   1   Singing   Total   1244   3   27/06/2023   S.   Amber   1   Singing   Total   1244   3   27/06/2023   S.   Green   1   Singing   Total   1245   Singing   Total   1246   Singing   Total   Singing   Total   Singing   Total   Singing   Total   Total   Singing   Total   Total   Singing   Total   Total   Singing   Total   Singi	1234	3	27/06/2023	WR	Green	1			Singing	Different bird to nearby record
1237   3   27/06/2023   WR   Green   1   Singing     1238   3   27/06/2023   WW   Amber   1   Singing     1239   3   27/06/2023   WR   Green   1   Singing     1240   3   27/06/2023   CH   Green   1   Singing     1241   3   27/06/2023   WW   Amber   1   Singing     1242   3   27/06/2023   CH   Green   1   Calling     1243   3   27/06/2023   CH   Green   1   Singing     1244   3   27/06/2023   CH   Green   1   Singing     1244   3   27/06/2023   S.   Amber   1   Singing     1244   3   27/06/2023   S.   Amber   1   Singing     1245   3   27/06/2023   SW   Green   2   Calling     1246   3   27/06/2023   SW   Green   2   Calling     1247   3   27/06/2023   SR   Green   1   Singing     1248   3   27/06/2023   SR   Green   1   Calling     1249   3   27/06/2023   SR   Green   1   Calling     1249   3   27/06/2023   CH   Green   1   Calling     1249   3   27/06/2023   SR   Green   1   Calling     1250   3   27/06/2023   SR   Green   1   Calling     1251   3   27/06/2023   SR   Green   1   Calling     1252   3   27/06/2023   SR   Green   1   Calling     1253   3   27/06/2023   SR   Green   1   Calling     1254   3   27/06/2023   SR   Green   1   Calling     1255   3   27/06/2023   SR   Green   1   Calling     1256   3   27/06/2023   SR   Green   1   Calling     1255   3   27/06/2023   SR   Green   1   Calling     1256   3   27/06/2023   SR   Green   1   Calling     1257   3   27/06/2023   SR   Green   1   Calling     1258   3   27/06/2023   SR   Green   1   Calling     1259   3   27/06/2023   SR   Green   1   Singing     1258   3   27/06/2023   SR   Green   1   Singing     1259   3   27/06/2023   SR   Green   1   Singing     1260   3   27/06/2023   SR   Green   1   Singing     1261   3   27/06/2023   SR   Green   1   Singing     1262   3   27/06/2023   SR   Green   1   Singing     1263   3   27/06/2023   SR   Green   1   Singing     1264   3   27/06/2023   SR   Green   1   Singing     1265   3   27/06/2023   SR   Green   1   Singing     1266   3   27/06/2023   SR   Green   1   Singing	1235	3	27/06/2023	R.	Green	1			Calling	
1238   3   27/06/2023   WW   Amber   1   Singing   Possibly same bird   1240   3   27/06/2023   CH   Green   1   Singing   Possibly same bird   1241   3   27/06/2023   WW   Amber   1   Singing   1242   3   27/06/2023   CH   Green   1   Calling   1242   3   27/06/2023   CH   Green   1   Calling   1244   3   27/06/2023   S.   Amber   1   Singing   1245   3   27/06/2023   SW   Green   2   Calling   1246   3   27/06/2023   SW   Green   2   Calling   1246   3   27/06/2023   SC   Green   1   Singing   1247   3   27/06/2023   SC   Green   1   Calling   1248   3   27/06/2023   SC   Green   1   Calling   1248   3   27/06/2023   SC   Green   1   Calling   1249   3   27/06/2023   SC   Green   1   Calling   1250   3   27/06/2023   SC   Green   1   Calling   1251   3   27/06/2023   SC   Green   1   Calling   1252   3   27/06/2023   SC   Green   1   Calling   1252   3   27/06/2023   SC   Green   1   Calling   1254   3   27/06/2023   SC   Green   1   Calling   1254   3   27/06/2023   SC   Green   1   Calling   1255   3   27/06/2023   SC   Green   1   Calling   1256   3   27/06/2023   SC   Green   1   Calling   1256   3   27/06/2023   SC   Amber   1   Singing   1256   3   27/06/2023   SC   Amber   1   Singing   1257   3   27/06/2023   SC   Amber   1   Singing   1258   3   27/06/2023   SC   Green   1   Singing   1258   3   27/06/2023   SC   CAlling   1259   3	1236	3	27/06/2023	WR	Green	1			Singing	Different bird to nearby record
1239   3   27/06/2023   WR   Green   1   Singing   Possibly same bird     1240   3   27/06/2023   CH   Green   1   Singing     1241   3   27/06/2023   WW   Amber   1   Singing     1242   3   27/06/2023   CH   Green   1   Calling     1243   3   27/06/2023   CH   Green   1   Singing     1244   3   27/06/2023   S.   Amber   1   Singing     1245   3   27/06/2023   GO   Green   1   Singing     1246   3   27/06/2023   SW   Green   2   Calling     1247   3   27/06/2023   BC   Green   1   Singing     1248   3   27/06/2023   BC   Green   1   Galling     1249   3   27/06/2023   B.   Green   1   Calling     1249   3   27/06/2023   CH   Green   1   Galling     1250   3   27/06/2023   B.   Green   1   Galling     1251   3   27/06/2023   B.   Green   1   Calling     1252   3   27/06/2023   Y.   Red   1   Galling     1253   3   27/06/2023   R.   Green   1   Calling     1254   3   27/06/2023   Y.   Red   1   Galling     1255   3   27/06/2023   B.   Green   1   Calling     1256   3   27/06/2023   R.   Green   1   Calling     1257   3   27/06/2023   R.   Green   1   Calling     1258   3   27/06/2023   R.   Green   1   Calling     1259   3   27/06/2023   R.   Green   1   Calling     1257   3   27/06/2023   R.   Green   1   Galling     1258   3   27/06/2023   R.   Green   1   Galling     1259   3   27/06/2023   R.   Green   1   Galling     1250   3   27/06/2023   CH   Green   1   Galling	1237	3	27/06/2023	WR	Green	1			Singing	
1240         3         27/06/2023         CH         Green         1         Singing           1241         3         27/06/2023         WW         Amber         1         Singing           1242         3         27/06/2023         CH         Green         1         Calling           1243         3         27/06/2023         S.         Amber         1         Singing           1244         3         27/06/2023         GO         Green         1         Singing           1245         3         27/06/2023         BC         Green         2         Calling           1246         3         27/06/2023         BC         Green         1         Singing           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         R.         Green         1         Calling           1249         3         27/06/2023         B.         Green         1         Calling           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red	1238	3	27/06/2023	WW	Amber	1			Singing	
1241         3         27/06/2023         WW         Amber         1         Singing           1242         3         27/06/2023         CH         Green         1         Calling           1243         3         27/06/2023         S.         Amber         1         Singing           1244         3         27/06/2023         GO         Green         1         Singing           1245         3         27/06/2023         SW         Green         1         Singing           1246         3         27/06/2023         BC         Green         1         Calling           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         R.         Green         1         Calling           1249         3         27/06/2023         B.         Green         1         Calling           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         B.         Green         1         Calling           1252         3         27/06/2023         B.         Green <td>1239</td> <td>3</td> <td>27/06/2023</td> <td>WR</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Singing</td> <td>Possibly same bird</td>	1239	3	27/06/2023	WR	Green	1			Singing	Possibly same bird
1242         3         27/06/2023         CH         Green         1         Calling           1243         3         27/06/2023         S.         Amber         1         Singing           1244         3         27/06/2023         GO         Green         1         Singing           1245         3         27/06/2023         SW         Green         2         Calling           1246         3         27/06/2023         BC         Green         1         Singing           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         R.         Green         1         Calling           1249         3         27/06/2023         B.         Green         1         Calling           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Calling           1253         3         27/06/2023         R.         Green	1240	3	27/06/2023	CH	Green	1			Singing	
1243         3         27/06/2023         S.         Amber         1         Singing           1244         3         27/06/2023         GO         Green         1         Singing           1245         3         27/06/2023         SW         Green         2         Calling           1246         3         27/06/2023         BC         Green         1         Singing           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         B.         Green         1         Calling           1249         3         27/06/2023         CH         Green         1         Calling           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Calling           1253         3         27/06/2023         R.         Green         1         Calling           1254         3         27/06/2023         R.         Green	1241	3	27/06/2023	WW	Amber	1			Singing	
1244         3         27/06/2023         GO         Green         1         Singing           1245         3         27/06/2023         SW         Green         2         Calling           1246         3         27/06/2023         BC         Green         1         Singing           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         B.         Green         1         Calling           1249         3         27/06/2023         CH         Green         1         Calling           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Calling           1253         3         27/06/2023         Y.         Red         1         Calling           1254         3         27/06/2023         R.         Green         1         Calling           1255         3         27/06/2023         R.         Green	1242	3	27/06/2023	CH	Green	1			Calling	
1245         3         27/06/2023         SW         Green         2         Calling           1246         3         27/06/2023         BC         Green         1         Singing           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         B.         Green         1         Calling           1249         3         27/06/2023         CH         Green         1         Singing           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Calling           1253         3         27/06/2023         B.         Green         1         Calling           1254         3         27/06/2023         R.         Green         1         Calling           1255         3         27/06/2023         R.         Green         1         Calling           1256         3         27/06/2023         CH         Green	1243	3	27/06/2023	S.	Amber	1			Singing	
1246         3         27/06/2023         BC         Green         1         Singing           1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         B.         Green         1         Calling           1249         3         27/06/2023         CH         Green         1         Singing           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Singing         Perched on tower           1253         3         27/06/2023         Y.         Red         1         Calling           1254         3         27/06/2023         R.         Green         1         Calling           1255         3         27/06/2023         R.         Green         1         Calling           1256         3         27/06/2023         G.         Amber         1         Singing           1257         3         27/06/2023         G	1244	3	27/06/2023	GO	Green	1			Singing	
1247         3         27/06/2023         R.         Green         1         Calling           1248         3         27/06/2023         B.         Green         1         Calling           1249         3         27/06/2023         CH         Green         1         Singing           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Galling           1253         3         27/06/2023         B.         Green         1         Calling           1254         3         27/06/2023         R.         Green         1         Calling           1255         3         27/06/2023         R.         Green         1         Calling           1256         3         27/06/2023         B.         Green         1         Singing           1257         3         27/06/2023         GC         Amber         1         Singing           1258         3         27/06/2023         R.         Green	1245	3	27/06/2023	SW	Green	2			Calling	
1248         3         27/06/2023         B.         Green         1         Calling           1249         3         27/06/2023         CH         Green         1         Singing           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Singing         Perched on tower           1253         3         27/06/2023         B.         Green         1         Calling           1254         3         27/06/2023         R.         Green         1         Calling           1255         3         27/06/2023         B.         Green         1         Calling           1256         3         27/06/2023         CH         Green         1         Singing           1257         3         27/06/2023         GC         Amber         1         Singing           1258         3         27/06/2023         R.         Green         1         Calling         Different bird to nearby record           1259         <	1246	3	27/06/2023	ВС	Green	1			Singing	
1249         3         27/06/2023         CH         Green         1         Singing           1250         3         27/06/2023         B.         Green         1         Calling           1251         3         27/06/2023         Y.         Red         1         Calling           1252         3         27/06/2023         Y.         Red         1         Singing         Perched on tower           1253         3         27/06/2023         B.         Green         1         Calling           1254         3         27/06/2023         R.         Green         1         Calling           1255         3         27/06/2023         B.         Green         1         Calling           1256         3         27/06/2023         CH         Green         1         Singing           1257         3         27/06/2023         GC         Amber         1         Singing           1258         3         27/06/2023         R.         Green         1         Calling         Different bird to nearby record           1259         3         27/06/2023         BT         Green         1         Singing           1260         <	1247	3	27/06/2023	R.	Green	1			Calling	
1250       3       27/06/2023       B.       Green       1       Calling         1251       3       27/06/2023       Y.       Red       1       Calling         1252       3       27/06/2023       Y.       Red       1       Singing       Perched on tower         1253       3       27/06/2023       B.       Green       1       Calling         1254       3       27/06/2023       R.       Green       1       Calling         1255       3       27/06/2023       B.       Green       1       Calling         1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Singing         1262 <td>1248</td> <td>3</td> <td>27/06/2023</td> <td>B.</td> <td>Green</td> <td>1</td> <td></td> <td></td> <td>Calling</td> <td></td>	1248	3	27/06/2023	B.	Green	1			Calling	
1251       3       27/06/2023       Y.       Red       1       Calling         1252       3       27/06/2023       Y.       Red       1       Singing       Perched on tower         1253       3       27/06/2023       B.       Green       1       Calling         1254       3       27/06/2023       R.       Green       1       Calling         1255       3       27/06/2023       B.       Green       1       Calling         1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1249	3	27/06/2023	CH	Green	1			Singing	
1252       3       27/06/2023       Y.       Red       1       Singing       Perched on tower         1253       3       27/06/2023       B.       Green       1       Calling         1254       3       27/06/2023       R.       Green       1       Calling         1255       3       27/06/2023       B.       Green       1       Calling         1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1250	3	27/06/2023	B.	Green	1			Calling	
1253       3       27/06/2023       B.       Green       1       Calling         1254       3       27/06/2023       R.       Green       1       Calling         1255       3       27/06/2023       B.       Green       1       Calling         1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1251	3	27/06/2023	Y.	Red	1			Calling	
1254       3       27/06/2023       R.       Green       1       Calling         1255       3       27/06/2023       B.       Green       1       Calling         1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1252	3	27/06/2023	Y.	Red	1			Singing	Perched on tower
1255       3       27/06/2023       B.       Green       1       Calling         1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1253	3	27/06/2023	B.	Green	1			Calling	
1256       3       27/06/2023       CH       Green       1       Singing         1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1254	3	27/06/2023	R.	Green	1			Calling	
1257       3       27/06/2023       GC       Amber       1       Singing         1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1255	3	27/06/2023	B.	Green	1			Calling	
1258       3       27/06/2023       R.       Green       1       Calling       Different bird to nearby record         1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1256	3	27/06/2023	CH	Green	1			Singing	
1259       3       27/06/2023       WR       Green       1       Singing         1260       3       27/06/2023       BT       Green       1       Singing         1261       3       27/06/2023       LT       Green       1       Calling         1262       3       27/06/2023       CH       Green       1       Calling	1257	3	27/06/2023	GC	Amber	1			Singing	
1260     3     27/06/2023     BT     Green     1     Singing       1261     3     27/06/2023     LT     Green     1     Calling       1262     3     27/06/2023     CH     Green     1     Calling	1258	3	27/06/2023	R.	Green	1			Calling	Different bird to nearby record
1261     3     27/06/2023     LT     Green     1     Calling       1262     3     27/06/2023     CH     Green     1     Calling	1259	3	27/06/2023	WR	Green	1			Singing	
1262 3 27/06/2023 CH Green 1 Calling	1260	3	27/06/2023	ВТ	Green	1			Singing	
- · · · · · · · · · · · · · · · · · · ·	1261	3	27/06/2023	LT	Green	1			Calling	
1263 3 27/06/2023 CH Green 2 Calling	1262	3	27/06/2023	СН	Green	1			Calling	
	1263	3	27/06/2023	CH	Green	2			Calling	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1264	3	27/06/2023	ВТ	Green	1			Calling	
1265	3	27/06/2023	WP	Green	1			Singing	
1266	3	27/06/2023	СН	Green	1			Singing	
1267	3	27/06/2023	GC	Amber	1			Singing	
1268	3	27/06/2023	GT	Green	1			Calling	
1269	3	27/06/2023	ВС	Green	1			Singing	
1270	3	27/06/2023	ВС	Green	1			Singing	
1271	3	27/06/2023	ВТ	Green	1			Calling	
1272	3	27/06/2023	СН	Green	1			Singing	
1273	3	27/06/2023	СН	Green	1			Calling	Different bird to nearby record
1274	3	27/06/2023	Y.	Red	1			Singing	Different bird to nearby record
1275	3	27/06/2023	WR	Green	1			Calling	
1276	3	27/06/2023	M.	Green	1	Juvenile		Perched	
1277	3	27/06/2023	WR	Green	1			Singing	
1278	3	27/06/2023	GT	Green	1			Calling	
1279	3	27/06/2023	WR	Green	1			Singing	
1280	3	27/06/2023	GC	Amber	1			Singing	
1281	3	27/06/2023	CH	Green	1			Calling	
1282	3	27/06/2023	CH	Green	1			Calling	
1283	3	27/06/2023	WR	Green	1			Singing	
1284	3	27/06/2023	CH	Green	1			Singing	
1285	3	27/06/2023	WR	Green	1			Singing	
1286	3	27/06/2023	B.	Green	1			Calling	
1287	3	27/06/2023	CH	Green	1			Singing	
1288	3	27/06/2023	WR	Green	1			Singing	
1289	3	27/06/2023	CH	Green	1			Singing	Different bird to nearby record
1290	3	27/06/2023	R.	Green	1			Calling	
1291	3	27/06/2023	WR	Green	1			Singing	
1292	3	27/06/2023	ВС	Green	1			Singing	
1293	3	27/06/2023	Y.	Red	1			Singing	
1294	3	27/06/2023	Y.	Red	1			Singing	
1295	3	27/06/2023	WW	Amber	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1296	3	27/06/2023	Y.	Red	1			Singing	
1297	3	27/06/2023	ВС	Green	1			Singing	
1298	3	27/06/2023	CH	Green	1			Calling	
1299	3	27/06/2023	Y.	Red	1			Singing	
1300	3	27/06/2023	ВС	Green	1			Singing	
1301	3	27/06/2023	WR	Green	1			Singing	
1302	3	27/06/2023	WP	Green	1			Perched	
1303	3	27/06/2023	WR	Green	1			Singing	
1304	3	27/06/2023	B.	Green	1			Singing	
1305	3	27/06/2023	WR	Green	1			Singing	
1306	3	27/06/2023	ВС	Green	1			Singing	
1307	3	27/06/2023	R.	Green	1			Calling	
1308	3	27/06/2023	ВС	Green	2		Male & Female	Perched	
1309	3	27/06/2023	WR	Green	1			Singing	Possibly same bird
1310	3	27/06/2023	GO	Green	1			Singing	
1311	3	27/06/2023	B.	Green	1			Singing	
1312	3	27/06/2023	CH	Green	1			Singing	
1313	3	27/06/2023	B.	Green	1			Calling	
1314	3	27/06/2023	CH	Green	1			Calling	
1315	4	25/07/2023	R.	Green	1			Flying	Into vegetation
1316	4	25/07/2023	В.	Green	2		Male & Female	Foraging	
1317	4	25/07/2023	GO	Green	1			Perched	
1318	4	25/07/2023	R.	Green	1			Calling	
1319	4	25/07/2023	CH	Green	1			Singing	
1320	4	25/07/2023	GO	Green	2			Singing	
1321	4	25/07/2023	WR	Green	1			Singing	
1322	4	25/07/2023	LI	Amber	9			Perched	
1323	4	25/07/2023	SG	Amber	5			Perched	
1324	4	25/07/2023	SC	Green	1		Male	Calling	
1325	4	25/07/2023	MP	Green	1			Calling	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1326	4	25/07/2023	SC	Green	1		Female	Perched	
1327	4	25/07/2023	GO	Green	3			Flying	Circling
1328	4	25/07/2023	R.	Green	1			Calling	
1329	4	25/07/2023	B.	Green	1			Calling	
1330	4	25/07/2023	Y.	Red	1			Singing	
1331	4	25/07/2023	R.	Green	1			On ground	
1332	4	25/07/2023	WR	Green	1			Singing	
1333	4	25/07/2023	B.	Green	1			On ground	
1334	4	25/07/2023	R.	Green	1			Calling	
1335	4	25/07/2023	GT	Green	1			Perched	
1336	4	25/07/2023	ВС	Green	1			Singing	
1337	4	25/07/2023	SL	Amber	2			Perched	
1338	4	25/07/2023	ВС	Green	1			Singing	
1339	4	25/07/2023	Y.	Red	1			Singing	
1340	4	25/07/2023	SG	Amber	11	7 adult & 4 juvenile		Perched	
1341	4	25/07/2023	WR	Green	1			Singing	
1342	4	25/07/2023	HS	Amber	1		Male	Foraging	
1343	4	25/07/2023	R.	Green	1			Flying	Into vegetation
1344	4	25/07/2023	Y.	Red	1			Singing	On wire
1345	4	25/07/2023	HS	Amber	4			Singing	
1346	4	25/07/2023	SL	Amber	3			Perched	
1347	4	25/07/2023	HS	Amber	1			Perched	
1348	4	25/07/2023	Y.	Red	1			Singing	
1349	4	25/07/2023	НМ	Amber	2			Perched	
1350	4	25/07/2023	SL	Amber	2			Perched	
1351	4	25/07/2023	SL	Amber	5			Flying	Circling
1352	4	25/07/2023	SL	Amber	4			Flying	Circling
1353	4	25/07/2023	Y.	Red	1			Flying	Into vegetation
1354	4	25/07/2023	D.	Green	1			Perched	
1355	4	25/07/2023	ВТ	Green	1			Calling	
1356	4	25/07/2023	Y.	Red	1			Singing	Singing to another bird

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1357	4	25/07/2023	GR	Amber	1			Calling	
1358	4	25/07/2023	GR	Amber	1			Calling	
1359	4	25/07/2023	Y.	Red	1			Singing	
1360	4	25/07/2023	GO	Green	2			Perched	
1361	4	25/07/2023	LI	Amber	5			Perched	
1362	4	25/07/2023	CH	Green	1			Calling	
1363	4	25/07/2023	Y.	Red	1			Perched	
1364	4	25/07/2023	GR	Amber	1			Perched	
1365	4	25/07/2023	SL	Amber	1			Perched	
1366	4	25/07/2023	SL	Amber	3			Flying	Circling
1367	4	25/07/2023	B.	Green	1		Female	Foraging	Carrying food
1368	4	25/07/2023	HS	Amber	1			Singing	
1369	4	25/07/2023	R.	Green	1			Singing	
1370	4	25/07/2023	HS	Amber	1	Adult	Male	Perched	
1371	4	25/07/2023	RO	Green	2			Perched	
1372	4	25/07/2023	GC	Amber	1			Calling	
1373	4	25/07/2023	HS	Amber	4			Singing	In scrub, most likely more than 4
1374	4	25/07/2023	R.	Green	1			Perched	
1375	4	25/07/2023	GO	Green	1			Singing	
1376	4	25/07/2023	GR	Amber	1			Singing	
1377	4	25/07/2023	Y.	Red	1			Singing	
1378	4	25/07/2023	Y.	Red	1			Perched	
1379	4	25/07/2023	B.	Green	1			Perched	
1380	4	25/07/2023	WR	Green	1			Singing	
1381	4	25/07/2023	B.	Green	1		Male	Foraging	
1382	4	25/07/2023	WP	Green	1			Singing	
1383	4	25/07/2023	WR	Green	1			Singing	
1384	4	25/07/2023	GO	Green	1			Singing	
1385	4	25/07/2023	GO	Green	3			Perched	
1386	4	25/07/2023	WW	Amber	1			Singing	
1387	4	25/07/2023	GC	Amber	1			Calling	
1388	4	25/07/2023	WR	Green	1			Singing	

1389	ID	Survey No.	Date	вто	BOCCI	No.	Age Sex	Activity Comment
1391	1389	4	25/07/2023	R.	Green	1		Calling
1392         4         25/07/2023         WR         Green         1         Singing           1393         4         25/07/2023         B.         Green         1         Calling           1394         4         25/07/2023         R.         Green         1         Calling           1395         4         25/07/2023         R.         Green         1         Calling           1396         4         25/07/2023         GO         Green         3         Singing           1397         4         25/07/2023         CT         Green         3         Foraging           1398         4         25/07/2023         BT         Green         1         Calling           1400         4         25/07/2023         GO         Green         1         Singing           1401         4         25/07/2023         RO         Green         14         Perched           1401         4         25/07/2023         RO         Green         1         Calling           1402         4         25/07/2023         RO         Green         1         Singing           1403         4         25/07/2023         WR         Green </td <td>1390</td> <td>4</td> <td>25/07/2023</td> <td>СН</td> <td>Green</td> <td>1</td> <td></td> <td>Singing</td>	1390	4	25/07/2023	СН	Green	1		Singing
1393	1391	4	25/07/2023	GO	Green	1		Calling
1394	1392	4	25/07/2023	WR	Green	1		Singing
1395	1393	4	25/07/2023	B.	Green	1		Calling
1396	1394	4	25/07/2023	СН	Green	1		Calling
1397         4         25/07/2023         CT         Green         3         Foraging           1398         4         25/07/2023         BT         Green         1         Calling           1399         4         25/07/2023         GO         Green         1         Singing           1400         4         25/07/2023         RO         Green         14         Perched           1401         4         25/07/2023         HS         Amber         1         Calling           1402         4         25/07/2023         GO         Green         2         Perched           1403         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         CH         Green         1         Singing           1405         4         25/07/2023         CH         Green         1         Singing           1406         4         25/07/2023         WR         Green         1         Singing           1407         4         25/07/2023         WR         Green </td <td>1395</td> <td>4</td> <td>25/07/2023</td> <td>R.</td> <td>Green</td> <td>1</td> <td></td> <td>Calling</td>	1395	4	25/07/2023	R.	Green	1		Calling
1398         4         25/07/2023         BT         Green         1         Calling           1399         4         25/07/2023         GO         Green         1         Singing           1400         4         25/07/2023         RO         Green         14         Perched           1401         4         25/07/2023         HS         Amber         1         Calling           1402         4         25/07/2023         GO         Green         2         Perched           1403         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         SG         Amber         45         Adult & Perched           1404         4         25/07/2023         CH         Green         1         Singing           1405         4         25/07/2023         GO         Green         1         Singing           1406         4         25/07/2023         WR         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Calling           1408         4         25/07/2023         GR <td< td=""><td>1396</td><td>4</td><td>25/07/2023</td><td>GO</td><td>Green</td><td>3</td><td></td><td>Singing</td></td<>	1396	4	25/07/2023	GO	Green	3		Singing
1399	1397	4	25/07/2023	СТ	Green	3		Foraging
1400         4         25/07/2023         RO         Green         14         Perched           1401         4         25/07/2023         HS         Amber         1         Calling           1402         4         25/07/2023         GO         Green         2         Perched           1403         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         SG         Amber         45         Adult & perched           1405         4         25/07/2023         CH         Green         1         Singing           1406         4         25/07/2023         GO         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         WR         Green         1         Calling           1409         4         25/07/2023         GR         Amber         1         Perched           1410         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         Y. <td< td=""><td>1398</td><td>4</td><td>25/07/2023</td><td>ВТ</td><td>Green</td><td>1</td><td></td><td>Calling</td></td<>	1398	4	25/07/2023	ВТ	Green	1		Calling
1401         4         25/07/2023         HS         Amber         1         Calling           1402         4         25/07/2023         GO         Green         2         Perched           1403         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         SG         Amber         45         Adult & perched juvenile           1405         4         25/07/2023         CH         Green         1         Singing           1406         4         25/07/2023         GO         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         WR         Green         1         Calling           1408         4         25/07/2023         GR         Amber         1         Calling           1409         4         25/07/2023         LI         Amber         1         Calling           1411         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         CH	1399	4	25/07/2023	GO	Green	1		Singing
1402         4         25/07/2023         GO         Green         2         Perched           1403         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         SG         Amber         45         Adult & perched juvenile           1405         4         25/07/2023         CH         Green         1         Singing           1406         4         25/07/2023         GO         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         GR         Amber         1         Calling           1409         4         25/07/2023         LI         Amber         1         Perched           1410         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         Y.         Red         1         Perched           1412         4         25/07/2023         LI         Amber         3         Perched           1413         4         25/07/2023         GR	1400	4	25/07/2023	RO	Green	14		Perched
1403         4         25/07/2023         WR         Green         1         Singing           1404         4         25/07/2023         SG         Amber         45         Adult & perched juvenile juvenile           1405         4         25/07/2023         CH         Green         1         Singing           1406         4         25/07/2023         GO         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         GR         Amber         1         Calling           1409         4         25/07/2023         LI         Amber         1         Perched           1410         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         Y.         Red         1         Perched           1412         4         25/07/2023         CH         Green         1         Calling           1413         4         25/07/2023         LI         Amber         3         Perched           1414         4         25/07/2023         GR </td <td>1401</td> <td>4</td> <td>25/07/2023</td> <td>HS</td> <td>Amber</td> <td>1</td> <td></td> <td>Calling</td>	1401	4	25/07/2023	HS	Amber	1		Calling
1404         4         25/07/2023         SG         Amber         45         Adult & juvenile juvenile juvenile         Perched           1405         4         25/07/2023         CH         Green         1         Singing           1406         4         25/07/2023         GO         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         GR         Amber         1         Calling           1409         4         25/07/2023         LI         Amber         1         Perched           1410         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         Y.         Red         1         Perched           1412         4         25/07/2023         CH         Green         1         Calling           1413         4         25/07/2023         LI         Amber         3         Perched           1414         4         25/07/2023         GR         Amber         1         Calling           1415         4         25/07/	1402	4	25/07/2023	GO	Green	2		Perched
1405   4   25/07/2023   CH   Green   1   Singing     1406   4   25/07/2023   GO   Green   1   Singing     1407   4   25/07/2023   WR   Green   1   Singing     1408   4   25/07/2023   GR   Amber   1   Calling     1409   4   25/07/2023   LI   Amber   1   Perched     1410   4   25/07/2023   B.   Green   1   Calling     1411   4   25/07/2023   Y.   Red   1   Perched     1412   4   25/07/2023   CH   Green   1   Calling     1413   4   25/07/2023   LI   Amber   3   Perched     1414   4   25/07/2023   LI   Amber   3   Perched     1415   4   25/07/2023   GR   Amber   1   Calling     1416   4   25/07/2023   BT   Green   2   Calling     1417   4   25/07/2023   CH   Green   1   Calling     1418   4   25/07/2023   CH   Green   1   Calling     1419   4   25/07/2023   CH   Green   1   Calling     1410   4   25/07/2023   CH   Green   1   Calling     1411   4   25/07/2023   CH   Green   1   Calling     1412   4   25/07/2023   CH   Green   1   Calling     1413   4   25/07/2023   CH   Green   1   Calling     1414   4   25/07/2023   CH   Green   1   Calling     1415   4   25/07/2023   B.   Green   1   Calling     1416   4   25/07/2023   B.   Green   1   Calling     1417   4   25/07/2023   WR   Green   1   Calling     1418   4   25/07/2023   WR   Green   1   Calling	1403	4	25/07/2023	WR	Green	1		Singing
1406         4         25/07/2023         GO         Green         1         Singing           1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         GR         Amber         1         Calling           1409         4         25/07/2023         LI         Amber         1         Perched           1410         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         Y.         Red         1         Perched           1412         4         25/07/2023         CH         Green         1         Calling           1413         4         25/07/2023         LI         Amber         3         Perched           1414         4         25/07/2023         GR         Amber         1         Calling           1415         4         25/07/2023         BT         Green         2         Calling           1416         4         25/07/2023         CH         Green         1         Calling           1417         4         25/07/2023         B.         Green	1404	4	25/07/2023	SG	Amber	45		Perched
1407         4         25/07/2023         WR         Green         1         Singing           1408         4         25/07/2023         GR         Amber         1         Calling           1409         4         25/07/2023         LI         Amber         1         Perched           1410         4         25/07/2023         B.         Green         1         Calling           1411         4         25/07/2023         Y.         Red         1         Perched           1412         4         25/07/2023         CH         Green         1         Calling           1413         4         25/07/2023         LI         Amber         3         Perched           1414         4         25/07/2023         GR         Amber         1         Calling           1415         4         25/07/2023         BT         Green         2         Calling           1416         4         25/07/2023         CH         Green         1         Calling           1417         4         25/07/2023         B.         Green         1         Calling           1418         4         25/07/2023         WR         Green	1405	4	25/07/2023	СН	Green	1		Singing
1408       4       25/07/2023       GR       Amber       1       Calling         1409       4       25/07/2023       LI       Amber       1       Perched         1410       4       25/07/2023       B.       Green       1       Calling         1411       4       25/07/2023       Y.       Red       1       Perched         1412       4       25/07/2023       CH       Green       1       Calling         1413       4       25/07/2023       LI       Amber       3       Perched         1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1406	4	25/07/2023	GO	Green	1		Singing
1409       4       25/07/2023       LI       Amber       1       Perched         1410       4       25/07/2023       B.       Green       1       Calling         1411       4       25/07/2023       Y.       Red       1       Perched         1412       4       25/07/2023       CH       Green       1       Calling         1413       4       25/07/2023       LI       Amber       3       Perched         1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1407	4	25/07/2023	WR	Green	1		Singing
1410       4       25/07/2023       B.       Green       1       Calling         1411       4       25/07/2023       Y.       Red       1       Perched         1412       4       25/07/2023       CH       Green       1       Calling         1413       4       25/07/2023       LI       Amber       3       Perched         1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1408	4	25/07/2023	GR	Amber	1		Calling
1411       4       25/07/2023       Y.       Red       1       Perched         1412       4       25/07/2023       CH       Green       1       Calling         1413       4       25/07/2023       LI       Amber       3       Perched         1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1409	4	25/07/2023	LI	Amber	1		Perched
1412       4       25/07/2023       CH       Green       1       Calling         1413       4       25/07/2023       LI       Amber       3       Perched         1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1410	4	25/07/2023	B.	Green	1		Calling
1413       4       25/07/2023       LI       Amber       3       Perched         1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1411	4	25/07/2023	Y.	Red	1		Perched
1414       4       25/07/2023       GR       Amber       1       Calling         1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1412	4	25/07/2023	СН	Green	1		Calling
1415       4       25/07/2023       BT       Green       2       Calling         1416       4       25/07/2023       CH       Green       1       Calling         1417       4       25/07/2023       B.       Green       1       Calling         1418       4       25/07/2023       WR       Green       1       Calling	1413	4	25/07/2023	LI	Amber	3		Perched
1416     4     25/07/2023     CH     Green     1     Calling       1417     4     25/07/2023     B.     Green     1     Calling       1418     4     25/07/2023     WR     Green     1     Calling	1414	4	25/07/2023	GR	Amber	1		Calling
1417     4     25/07/2023     B.     Green     1     Calling       1418     4     25/07/2023     WR     Green     1     Calling	1415	4	25/07/2023	ВТ	Green	2		Calling
1418 4 25/07/2023 WR Green 1 Calling	1416	4	25/07/2023	CH	Green	1		Calling
	1417	4	25/07/2023	В.	Green	1		Calling
1419 4 25/07/2023 BC Green 1 Singing	1418	4	25/07/2023	WR	Green	1		Calling
	1419	4	25/07/2023	ВС	Green	1		Singing

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1420	4	25/07/2023	ВТ	Green	1			Singing	
1421	4	25/07/2023	СН	Green	2			Calling	Both Calling
1422	4	25/07/2023	ВТ	Green	1			Calling	
1423	4	25/07/2023	MG	Green	1			Calling	
1424	4	25/07/2023	Y.	Red	1		Male	Perched	
1425	4	25/07/2023	BZ	Green	1			Calling	Perched in tree
1426	4	25/07/2023	WR	Green	1			Singing	
1427	4	25/07/2023	ВС	Green	1			Singing	
1428	4	25/07/2023	MP	Green	1			Foraging	
1429	4	26/07/2023	WR	Green	1			Singing	
1430	4	26/07/2023	WR	Green	1			Singing	
1431	4	26/07/2023	WR	Green	1			Singing	Different bird to nearby record
1432	4	26/07/2023	R.	Green	1			Calling	
1433	4	26/07/2023	Y.	Red	1			Singing	
1434	4	26/07/2023	WP	Green	1			Calling	
1435	4	26/07/2023	R.	Green	1			Calling	
1436	4	26/07/2023	R.	Green	1			Calling	
1437	4	26/07/2023	R.	Green	1			Calling	
1438	4	26/07/2023	WR	Green	1			Singing	
1439	4	26/07/2023	CH	Green	1			Singing	
1440	4	26/07/2023	Y.	Red	1			Singing	Different bird, singing simultaneously - territory defence
1441	4	26/07/2023	Y.	Red	1			Singing	Different bird, singing simultaneously - territory defence
1442	4	26/07/2023	WR	Green	1			Singing	
1443	4	26/07/2023	CH	Green	1			Singing	
1444	4	26/07/2023	WP	Green	1			Calling	
1445	4	26/07/2023	ВТ	Green	1			Singing	
1446	4	26/07/2023	Y.	Red	1			Singing	
1447	4	26/07/2023	GC	Amber	1			Singing	
1448	4	26/07/2023	GC	Amber	1			Singing	
1449	4	26/07/2023	WR	Green	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1450	4	26/07/2023	СН	Green	1			Calling	
1451	4	26/07/2023	CH	Green	1			Calling	
1452	4	26/07/2023	WR	Green	1			Singing	
1453	4	26/07/2023	CC	Green	1			Singing	
1454	4	26/07/2023	ВТ	Green	1			Calling	
1455	4	26/07/2023	WR	Green	1			Singing	
1456	4	26/07/2023	R.	Green	1			Calling	
1457	4	26/07/2023	SH	Green	3	Juvenile		Calling	Potential nest. Three birds Callinging, all seen flying in and out of Treeline
1458	4	26/07/2023	B.	Green	1			Calling	
1459	4	26/07/2023	Y.	Red	1			Singing	
1460	4	26/07/2023	WR	Green	1			Singing	
1461	4	26/07/2023	Y.	Red	1			Perched	
1462	4	26/07/2023	СТ	Green	1			Singing	
1463	4	26/07/2023	Y.	Red	2			Perched	Different bird to nearby records (2)
1464	4	26/07/2023	CH	Green	1			Calling	
1465	4	26/07/2023	WR	Green	1			Singing	
1466	4	26/07/2023	ВТ	Green	1			Singing	
1467	4	26/07/2023	WR	Green	1			Singing	
1468	4	26/07/2023	ВТ	Green	1			Calling	
1469	4	26/07/2023	GT	Green	1			Calling	
1470	4	26/07/2023	ВС	Green	1			Singing	
1471	4	26/07/2023	WR	Green	1			Singing	
1472	4	26/07/2023	Y.	Red	1			Singing	
1473	4	26/07/2023	WR	Green	1			Singing	
1474	4	26/07/2023	R.	Green	1			Calling	
1475	4	26/07/2023	WP	Green	1			Calling	
1476	4	26/07/2023	Y.	Red	1			Singing	
1477	4	26/07/2023	R.	Green	1			Calling	
1478	4	26/07/2023	Y.	Red	1			Singing	
1479	4	26/07/2023	WR	Green	1			Singing	
1480	4	26/07/2023	Y.	Red	1			Singing	

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1481	4	26/07/2023	Y.	Red	1			Singing	
1482	4	26/07/2023	R.	Green	1			Calling	
1483	4	26/07/2023	WR	Green	1			Singing	
1484	4	26/07/2023	B.	Green	1			Calling	
1485	4	26/07/2023	R.	Green	1			Calling	
1486	4	26/07/2023	R.	Green	1			Calling	
1487	4	26/07/2023	MG	Green	1			Calling	
1488	4	26/07/2023	GT	Green	1			Calling	
1489	4	26/07/2023	WW	Amber	1			Singing	
1490	4	26/07/2023	Y.	Red	1			Singing	
1491	4	26/07/2023	В.	Green	1			Calling	
1492	4	26/07/2023	ВТ	Green	2			Singing	
1493	4	26/07/2023	WR	Green	1			Singing	
1494	4	26/07/2023	WR	Green	1			Singing	
1495	4	26/07/2023	В.	Green	1			Calling	
1496	4	26/07/2023	PH	NA	3	1 Adult 8 2 juvenile		On ground	
1497	4	26/07/2023	WR	Green	1			Singing	
1498	3	26/06/2023	SL	Amber	3			Flying	West
1499	3	26/06/2023	SL	Amber	3			Flying	Back and forth
1500	3	26/06/2023	НМ	Amber	1			Flying	East
1501	3	26/06/2023	SL	Amber	1			Flying	Northwest
1502	3	26/06/2023	SL	Amber	3			Flying	Northeast
1503	3	26/06/2023	WP	Green	30			Flying	West
1504	3	26/06/2023	JD	Green	2			Flying	West
1505	3	26/06/2023	WP	Green	5			Flying	North
1506	3	26/06/2023	MG	Green	1			Flying	South
1507	3	26/06/2023	НМ	Amber	1			Flying	West
1508	3	26/06/2023	SL	Amber	1			Flying	West
1509	3	26/06/2023	SL	Amber	1			Flying	Southwest
1510	3	26/06/2023	В.	Green	1			Flying	Southest
1511	3	26/06/2023	SL	Amber	1			Flying	Southwest

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1512	3	26/06/2023	SL	Amber	1			Flying	East
1513	3	26/06/2023	SL	Amber	2			Flying	Northeast
1514	3	26/06/2023	НМ	Amber	3			Flying	East
1515	3	26/06/2023	НМ	Amber	1			Flying	Southwest
1516	3	26/06/2023	SL	Amber	2			Flying	Northwest
1517	3	26/06/2023	PW	Green	1			Flying	North
1518	3	26/06/2023	SL	Amber	1			Flying	North
1519	3	26/06/2023	SL	Amber	1			Flying	South
1520	3	26/06/2023	SL	Amber	1			Flying	Northeast
1521	3	26/06/2023	JD	Green	2			Flying	Southeast
1522	3	26/06/2023	SL	Amber	2			Flying	East
1523	3	26/06/2023	SL	Amber	3			Flying	Southeast
1524	3	26/06/2023	RO	Green	2			Flying	Northeast
1525	3	26/06/2023	SL	Amber	1			Flying	Southwest
1526	3	26/06/2023	GO	Green	2	Adult		Flying	Northeast
1527	3	26/06/2023	B.	Green	1		Male	Flying	East
1528	3	26/06/2023	RO	Green	1			Flying	Southest
1529	3	27/06/2023	B.	Green	1		Female	Flying	East
1530	3	27/06/2023	RO	Green	2			Flying	South
1531	3	27/06/2023	B.	Green	1		Male	Flying	South
1532	3	27/06/2023	B.	Green	1		Male	Flying	North. Carrying food.
1533	3	27/06/2023	SL	Amber	1			Flying	West
1534	3	27/06/2023	НМ	Amber	4			Flying	Northwest
1535	3	27/06/2023	R.	Green	1			Flying	South. Flew into hedgerow
1536	3	27/06/2023	В.	Green	1		Male	Flying	North
1537	3	27/06/2023	GO	Green	1			Flying	Northeast
1538	3	27/06/2023	RO	Green	2			Flying	Southwest
1539	3	27/06/2023	WP	Green	2			Flying	Southwest
1540	3	27/06/2023	SL	Amber	1			Flying	Southeast
1541	3	27/06/2023	GO	Green	1			Flying	South
1542	3	27/06/2023	SG	Amber	3			Flying	Southeast
1543	3	27/06/2023	SL	Amber	2			Flying	North and south

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1544	3	27/06/2023	SL	Amber	1			Flying	North
1545	3	27/06/2023	SL	Amber	1			Flying	South
1546	4	25/07/2023	НМ	Amber	3			Flying	East
1547	4	25/07/2023	SL	Amber	1			Flying	West
1548	4	25/07/2023	GO	Green	10			Flying	Northwest
1549	4	25/07/2023	SG	Amber	30			Flying	Northeast
1550	4	25/07/2023	MP	Red	1			Flying	Southwest
1551	4	25/07/2023	HG	Amber	3			Flying	Southeast
1552	4	25/07/2023	HS	Amber	1			Flying	Northwest
1553	4	25/07/2023	НМ	Amber	3			Flying	Northwest
1554	4	25/07/2023	SL	Amber	1			Flying	Southeast
1555	4	25/07/2023	CD	Green	1			Flying	South
1556	4	25/07/2023	SL	Amber	1			Flying	Northwest
1557	4	25/07/2023	НМ	Amber	3			Flying	East
1558	4	25/07/2023	SL	Amber	3			Flying	South
1559	4	25/07/2023	PW	Green	1			Flying	Southwest
1560	4	25/07/2023	SL	Amber	1			Flying	North. Flew into scrub and landed
1561	4	25/07/2023	SL	Amber	1			Flying	East
1562	4	25/07/2023	SL	Amber	2			Flying	Southeast
1563	4	25/07/2023	GO	Green	1			Flying	West
1564	4	25/07/2023	WP	Green	1			Flying	Southwest
1565	4	25/07/2023	CA	Amber	1			Flying	North
1566	4	25/07/2023	ΒZ	Green	3			Flying	North over woodland, one landed in tree to the north, two flew back south into wooded area. Possible nests in vicinity, alarm sounds from all three. Flew from road and landed in different trees
1567	4	25/07/2023	SL	Amber	1			Flying	Southest
1568	4	25/07/2023	HS	Amber	1			Flying	South
1569	4	25/07/2023	SL	Amber	1			Flying	West
1570	4	25/07/2023	В.	Green	1			Flying	Northwest. Flew from field into hedgerow.
1571	4	25/07/2023	GO	Green	2			Flying	West

ID	Survey No.	Date	вто	BOCCI	No.	Age	Sex	Activity	Comment
1572	4	26/07/2023	GO	Green	2			Flying	Northwest
1573	4	26/07/2023	ВН	Amber	5			Flying	Southwest
1574	4	26/07/2023	RO	Green	3			Flying	South
1575	4	26/07/2023	НМ	Amber	2			Flying	Northwest
1576	4	26/07/2023	GO	Green	2			Flying	Northwest
1577	4	26/07/2023	SL	Amber	1			Flying	North
1578	4	26/07/2023	SL	Amber	1			Flying	South
1579	4	26/07/2023	WP	Green	2			Flying	Southeast
1580	4	26/07/2023	SL	Amber	1			Flying	East
1581	4	26/07/2023	GO	Green	2			Flying	South

## **Annex B**

Intertidal survey data 2023

Table 1: BTO Species Codes.

BTO Code	Common name	Scientific name
H.	Grey heron	Ardea cinerea
RP	Ringed plover	Charadrius hiaticula
GR	Greenfinch	Chloris Chloris
RH	Red-throated diver	Gavia stellata
OC	Oystercatcher	Haematopus ostralegus
SL	Swallow	Hirundo rustica
HG	Herring gull	Larus argentatus
LI	Linnet	Linaria cannabina
RM	Red-breasted merganser	Mergus serrator
GX	Northern gannet	Morus bassana
CA	Cormorant	Phalacrocorax carbo
TE	Sandwich tern	Thalasseus sandvicensis
RK	Redshank	Tringa totanus
S.	Skylark	Alauda arvensis
MP	Meadow pipit	Anthus pratensis
ET	Little egret	Egretta garzetta
CM	Common gull	Larus canus
SU	Shelduck	Tadorna tadorna
CU	Curlew	Numenius arquata
AF	Little tern	Sterna albifrons
CN	Common tern	Sterna hirundo
ВН	Black-headed gull	Chroicocephalus ridibundus
RS	Roseate tern	Sterna dougallii
KI	Kittiwake	Rissa tridactyla

Table 2: 2023 Intertidal Bird Survey - Weather Data.

		Precip	itation	Cloud	Wind co	onditions	;	Sea condition	ns	S	olar/tidal c	ondition	S	Disturbances
Date	Time	Rain, snow, hail or none	Fog/m	nistCover	Strength	Direction	Sea state	Swell height	Glare	High Tide	e Low Tide	Sunrise	Sunset	Human activity
	11:46	Rain – 1	0	7	4	NE	1	0.1	0	_				
	12:46	0	0	8	3	NE	3	0.5	0	_				
24/04/2023	13:46	Rain – 1	0	7	3	NE	3	0.6	0	<b>- 14:46</b>	08:28 /	06:05	20:43	Walkers – 4
24/04/2023	14:46	Rain – 1	0	6	3	NE	2	0.3	0	_	20:50	00.03	20.43	Dogs - 2
	15:46	0	0	7	3	NE	1	0.1	0	_				
	16:46	0	0	5	3	NE	1	0.1	0					
	13:25	0	0	3	3	SW	1	0.5	Right - 1	_				Walkers – 3 Dogs – 1 Horseback riders - 2 Bait digger - 1
	14:25	0	0	2	3	SSW	1	0.5	0	_	03:55 / <b>16:25</b>		) 21:24	
17/05/2023	15:25	0	0	3	3	SSW	1	0.5	0			05:20		
	16:25	0	0	3	2	SSW	1	0.5	0			05.20	21.24	
	17:25	0	0	3	2	SSW	1	0.5	0	_				
	18:25	0	0	4	2	SSW	1	0.5	0					
	11:26	0	0	3	2	SW	1	0.1	0	-				Walkers – 9 Dogs – 3 Swimmers - 1 Angler – 1 Powered boat - 1
	12:26	0	0	3	3	WSW	1	0.1	0		08:00 / 20:11		21:52	
21/06/2023	13:26	0	0	4	3	SW	2	0.5	0	- - 14:26		04:57		
21/00/2023	14:26	0	0	5	4	SW	2	0.5	0	- 14.20		04.57		
	15:26	0	0	4	3	SW	2	0.5	0	_				
	16:26	0	0	4	3	SW	2	0.5	0	_				
	10:44	1	0	7	2	NW	1	0.1	0					
	11:44	2	0	8	2	NW	1	0.1	1	<del>-</del>				Walkers – 6
20/07/2023	12:44	0	0	7	2	NW	1	0.1	1	_ _ 13:44	07:30 /	05:22	21:36	Dogs – 1
20/01/2023	13:44	0	0	5	2	NW	1	0.1	0	13:44	19:42	05.22	21.30	Swimmers - 7
	14:44	0	0	6	2	NW	1	0.1	1	_				Powered boat - 1
	15:44	0	0	5	2	NW	1	0.1	0	_				
	10:15	0	0	3	4	SE	2	0.3	0					Walkers – 7
10/08/2023	11:15	0	0	1	4	SE	2	0.3	0	<sup></sup> 06:57 / 19:40	00:29 / <b>13:15</b>	05:55	21:00	Dogs – 1 Swimmers - 1
	12:15	0	0	2	5	SE	2	0.4	0	_ 10.70	10.10			

		Precipitation Cloud		Wind co	onditions		Sea condition	ıs	Solar/tidal conditions	Disturbances	
Date	Time	Rain, snow, hail or none	Fog/m	istCover	Strength	Direction	Sea stat	e Swell height	Glare	High Tide Low Tide Sunrise Sunset	Human activity
	13:15	0	0	2	5	SSE	2	0.5	0		
	14:15	0	0	3	5	SSE	2	0.5	0		
	15:15	0	0	3	5	SSE	3	0.7	0		

Table 3: 2023 Intertidal Bird Survey Data.

ID	Survey No.	Date	BTO Code	BOCCI	No.	Activity	Direction / location	Comments
1	1	24/04/2023	CA	Amber	3	Hunting	In sea	N/A
2	1	24/04/2023	GR	Amber	1	Flying	Hedgerow	N/A
3	1	24/04/2023	HG	Amber	4	Flying	N	N/A
4	1	24/04/2023	LI	Amber	4	Perched	Hedgerow	N/A
5	1	24/04/2023	GX	Amber	3	Feeding	In sea	Plunge feeding
6	1	24/04/2023	RM	Amber	16	Rafting	In sea	N/A
7	1	24/04/2023	RH	Amber	2	Hunting	In sea	N/A
8	1	24/04/2023	RP	Amber	5	Foraging	On shore	N/A
9	1	24/04/2023	TE	Amber	5	Flying	N	N/A
10	1	24/04/2023	SL	Amber	1	Flying	SE	N/A
11	1	24/04/2023	B.	Green	1	Perched	In tree	N/A
12	1	24/04/2023	B.	Green	1	Perched	In tree	N/A
13	1	24/04/2023	B.	Green	2	Perched	Hedgerow	N/A
14	1	24/04/2023	B.	Green	1	Perched	Hedgerow	N/A
15	1	24/04/2023	GB	Green	2	Flying	SSW	N/A
16	1	24/04/2023	H.	Green	1	Floating	In sea	N/A
17	1	24/04/2023	H.	Green	1	Flying	NE	N/A
18	1	24/04/2023	ST	Green	1	Perched	Hedgerow	N/A
19	1	24/04/2023	SC	Green	2	Perched	Hedgerow	N/A
20	1	24/04/2023	WM	Green	11	Foraging	Intertidal	N/A
21	1	24/04/2023	WP	Green	1	Flying	NE	N/A
22	1	24/04/2023	WR	Green	1	Perched	Hedgerow	N/A
23	1	24/04/2023	Grey seal	N/A	1	Swimming	In sea	Outside 300 m buffer
24	1	24/04/2023	PH	N/A	1	Foraging	In field	N/A
25	1	24/04/2023	OC	Red	20	Foraging	Intertidal	N/A
26	1	24/04/2023	RK	Red	2	Foraging	Intertidal	N/A
27	2	17/05/2023	CM	Amber	2	Foraging	Intertidal	N/A
28	2	17/05/2023	CA	Amber	3	Flying	SSW	N/A
29	2	17/05/2023	CA	Amber	5	Hunting	In sea	Outside 300 m buffer

30	2	17/05/2023	HG	Amber	1	Loafing	In sea	N/A
31	2	17/05/2023	HG	Amber	13	Loafing	Intertidal	N/A
32	2	17/05/2023	LI	Amber	5	Perched	Hedgerow	N/A
33	2	17/05/2023	GX	Amber	1	Searching	Over sea	Observed hunting outside buffer to the East
34	2	17/05/2023	RP	Amber	1	Foraging	Intertidal	Not seen to bring anything back to a nest etc
35	2	17/05/2023	SU	Amber	1	Flying	SSW	N/A
36	2	17/05/2023	S.	Amber	1	Singing	Hedgerow	N/A
37	2	17/05/2023	SL	Amber	2	Flying	NNW	Over and around field
38	2	17/05/2023	SL	Amber	2	Flying	NNE	Around beach
39	2	17/05/2023	В.	Green	1	Calling	Hedgerow	Male
40	2	17/05/2023	B.	Green	1	Singing	Hedgerow	Male
41	2	17/05/2023	GB	Green	1	Flying	NNE	N/A
42	2	17/05/2023	GB	Green	3	Loafing	Intertidal	N/A
43	2	17/05/2023	НС	Green	1	Feeding	Intertidal	Dropping shells to crack
44	2	17/05/2023	НС	Green	1	Foraging	Intertidal	Dropping shells to crack
45	2	17/05/2023	ET	Green	1	Foraging	Intertidal	N/A
46	2	17/05/2023	MP	Red	1	Foraging	Intertidal	Foraging in rocks along shore, turning seaweed
47	2	17/05/2023	ОС	Red	107	Foraging	Intertidal	N/A
48	3	21/06/2023	CN	Amber	1	Calling	Flying NNE	Flying and calling
49	3	21/06/2023	CA	Amber	1	Hunting	In sea	N/A
50	3	21/06/2023	CA	Amber	1	Flying	SSE	N/A
51	3	21/06/2023	HG	Amber	1	Flying	SSW	N/A
52	3	21/06/2023	HG	Amber	8	Loafing	In sea	Loafing after following trawler. Trawler went East
53	3	21/06/2023	HG	Amber	24	Flying	NE	N/A
54	3	21/06/2023	LI	Amber	2	Flying	WSW	N/A
55	3	21/06/2023	AF	Amber	1	Calling	Flying SSW	Flying SSW and calling
56	3	21/06/2023	RP	Amber	2	Calling	Flying NNE	Flying and calling - disturbed by surveyor
57	3	21/06/2023	B.	Green	1	Calling	Hedgerow	Male
58	3	21/06/2023	BZ	Green	1	Calling	Flying N	Calling and flying over Northern Fields - Peak 2
59	3	21/06/2023	ΒZ	Green	1	Calling	Flying S	Calling and flying over Northern Fields - Peak 2
60	3	21/06/2023	GO	Green	3	Calling	Hedgerow	N/A
61	3	21/06/2023	GB	Green	1	Foraging	On shore	N/A

62	3	21/06/2023	GB	Green	2	Loafing	In sea	Loafing after following trawler. Trawler went East
63	3	21/06/2023	НС	Green	1	Flying	SW	N/A
64	3	21/06/2023	PW	Green	1	Flying	NNE	N/A
65	3	21/06/2023	SC	Green	1	Perched	Hedgerow	Male
66	3	21/06/2023	WP	Green	1	Perched	In tree	N/A
67	3	21/06/2023	WR	Green	1	Singing	Hedgerow	N/A
68	3	21/06/2023	CU	Red	4	Calling	Flying SSE	Flying and calling
69	3	21/06/2023	MP	Red	1	Singing	Flying NNW	Flying and singing
70	3	21/06/2023	MP	Red	1	Foraging	On shore	Foraging in rocks along shore, turning seaweed
71	3	21/06/2023	ОС	Red	3	Calling	Flying SSW	Flying and calling
72	4	20/07/2023	ВН	Amber	1	Loafing	Intertidal	N/A
73	4	20/07/2023	GV	Red	4	Roosting	Intertidal	Outside 300 m buffer
								Part of the large flock of >300: assoc 2
74	4	20/07/2023	CN	Amber	4	Feeding	SSW	Plunge feeding
75	4	20/07/2023	CN	Amber	45	Roosting	Intertidal	Outside 300m buffer
								Part of the large flock of >300: assoc 2
76	4	20/07/2023	HG	Amber	1	Loafing	In sea	N/A
77	4	20/07/2023	HG	Amber	2	Flying	SSW	N/A
78	4	20/07/2023	LI	Amber	2	Flying	ENE	Flying and calling
79	4	20/07/2023	RM	Amber	6	Roosting	In sea	Females or juveniles either rafting or roosting
80	4	20/07/2023	RM	Amber	43	Roosting	In sea	Outside 300 m buffer
								Females and/or juveniles
81	4	20/07/2023	RP	Amber	4	Foraging	Intertidal	N/A
82	4	20/07/2023	RS	Amber	1	Feeding	SSW	Plunge feeding
83	4	20/07/2023	RS	Amber	5	Roosting	Intertidal	Outside 300 m buffer
								Part of the large flock of >300: assoc 2
84	4	20/07/2023	SM	Amber	5	Flying	Circling	Outside 300m buffer
								Possible nest. No entry observed
85	4	20/07/2023	TE	Amber	5	Feeding	SSW	Plunge feeding
86	4	20/07/2023	TE	Amber	50	Roosting	Intertidal	Outside 300 m buffer
		00/07/0000	01	A 1		FI :	N.	Part of the large flock of >300: assoc 2
87	4	20/07/2023	SL	Amber	3	Flying	N	N/A
88	4	20/07/2023	B.	Green	1	Calling	Hedgerow	N/A

89	4	20/07/2023	BZ	Green	1	Calling	N	Calling and flying
90	4	20/07/2023	GO	Green	1	Calling	Hedgerow	N/A
91	4	20/07/2023	GB	Green	5	Roosting	Intertidal	Outside 300 m buffer Part of the large flock of >300: assoc 2
92	4	20/07/2023	MG	Green	1	Perched	In tree	N/A
93	4	20/07/2023	WM	Green	56	Flying	SSW	Large flock flying S from Dunany point - assoc 1
94	4	20/07/2023	WM	Green	50	Roosting	Intertidal	Outside 300 m buffer Part of the large flock of >300: assoc 2
95	4	20/07/2023	WR	Green	1	Singing	Hedgerow	N/A
96	4	20/07/2023	CU	Red	1	Calling	SSW	Flying and calling
97	4	20/07/2023	CU	Red	50	Roosting	Intertidal	Outside 300 m buffer Part of the large flock of >300: assoc 2
98	4	20/07/2023	OC	Red	18	Flying	NNE	N/A
99	4	20/07/2023	OC	Red	103	Flying	SSW	Large flock flying S from Dunany point - assoc 1
100	4	20/07/2023	OC	Red	100	Roosting	Intertidal	Outside 300 m buffer Part of the large flock of >300: assoc 2
101	5	10/08/2023	ВН	Amber	4	Foraging	Intertidal	N/A
102	5	10/08/2023	ВН	Amber	2	Foraging	Intertidal	N/A
103	5	10/08/2023	ВН	Amber	2	Foraging	Intertidal	N/A
104	5	10/08/2023	CM	Amber	1	Foraging	Intertidal	N/A
105	5	10/08/2023	CM	Amber	1	Foraging	Intertidal	N/A
106	5	10/08/2023	CN	Amber	1	Hunting	In sea	Outside 300 m buffer Plunge feeding. ~2km East at sea
107	5	10/08/2023	HG	Amber	3	Foraging	Intertidal	N/A
108	5	10/08/2023	HG	Amber	2	Loafing	Intertidal	N/A
109	5	10/08/2023	HG	Amber	1	Roosting	Intertidal	N/A
110	5	10/08/2023	HG	Amber	1	Loafing	In sea	N/A
111	5	10/08/2023	HG	Amber	3	Foraging	Intertidal	N/A
112	5	10/08/2023	HG	Amber	1	Roosting	Intertidal	N/A
113	5	10/08/2023	HG	Amber	6	Foraging	Intertidal	N/A
114	5	10/08/2023	GX	Amber	1	Hunting	In sea	Outside 300 m buffer Plunge feeding. ~2km East at sea
115	5	10/08/2023	SL	Amber	2	Calling	NE	Flying and calling

116	5	10/08/2023	GB	Green	1	Roosting	Intertidal	N/A	
117	5	10/08/2023	GB	Green	2	Foraging	Intertidal	N/A	
118	5	10/08/2023	HC	Green	1	Flying	N	N/A	
119	5	10/08/2023	HC	Green	1	Foraging	Intertidal	N/A	
120	5	10/08/2023	HC	Green	1	Foraging	Intertidal	N/A	
121	5	10/08/2023	ET	Green	1	Foraging	Intertidal	N/A	
122	5	10/08/2023	SC	Green	3	Perched	Hedgerow	Juveniles	
123	5	10/08/2023	WM	Green	1	Foraging	Intertidal	Calling	
124	5	10/08/2023	CU	Red	2	Foraging	Intertidal	Calling while foraging	
125	5	10/08/2023	CU	Red	1	Foraging	Intertidal	Calling while foraging	
126	5	10/08/2023	CU	Red	1	Foraging	Intertidal	N/A	
127	5	10/08/2023	KI	Red	1	Roosting	Intertidal	N/A	
128	5	10/08/2023	ОС	Red	8	Calling	NNE	Calling and flying	
129	5	10/08/2023	ОС	Red	1	Foraging	Intertidal	N/A	
130	5	10/08/2023	ОС	Red	36	Foraging	Intertidal	N/A	